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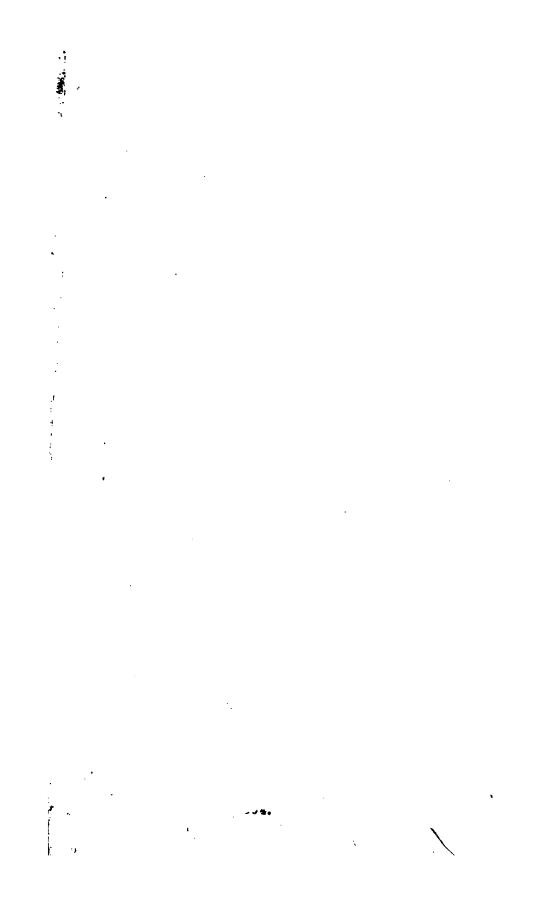
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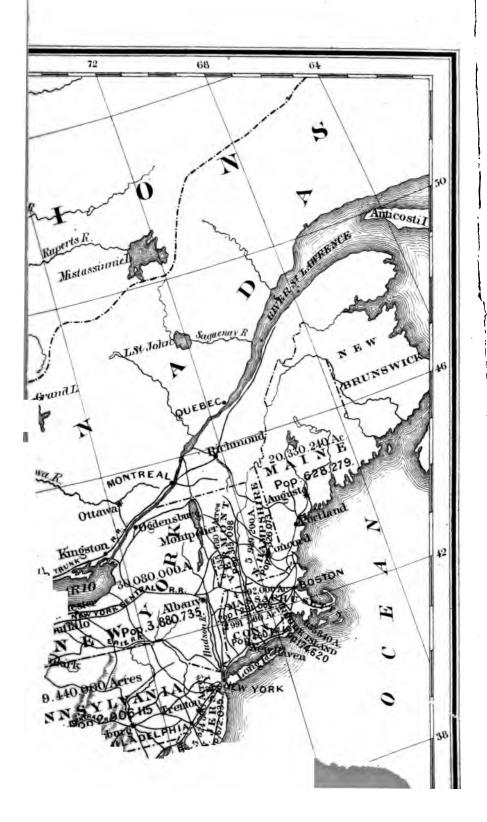












### STATISTICS

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OF THE

## FOREIGN AND DOMESTIC COMMERCE

OF

### THE UNITED STATES;

#### **EMBRACING**

A HISTORICAL REVIEW AND ANALYSIS OF FOREIGN COMMERCE FROM THE BEGINNING OF THE GOVERNMENT; THE PRESENT INTERNAL COMMERCE BETWEEF
THE MISSISSIPPI AND ATLANTIC STATES; THE OVERLAND TRADE
AND COMMUNICATIONS WITH THE PACIFIC STATES; THE
PRODUCTIONS AND EXCHANGES OF THE GOLD
AND SILVER DISTRICTS; THE COMMERCE
OF THE PACIFIC COAST, AND THE
INTERNATIONAL RELATIONS
OF THE NORTHERN FRONTIER OF THE UNITED
STATES.

COMMUNICATED BY

THE SECRETARY OF THE TREASURY, To it

IN ANSWER TO

A RESOLUTION OF THE SENATE OF THE UNITED STATES,
MARCH 12. 1868.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1864.

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In the House of Representatives, June 28, 1864.

Resolved, That there be printed for the use of the House eight thousand extra copies of the report of the Secretary of the Treasury, made in compliance with the resolution of the Senate of the 12th of March, 1863, relating to our foreign and domestic commerce, including as well that on the Pacific coast.

3200

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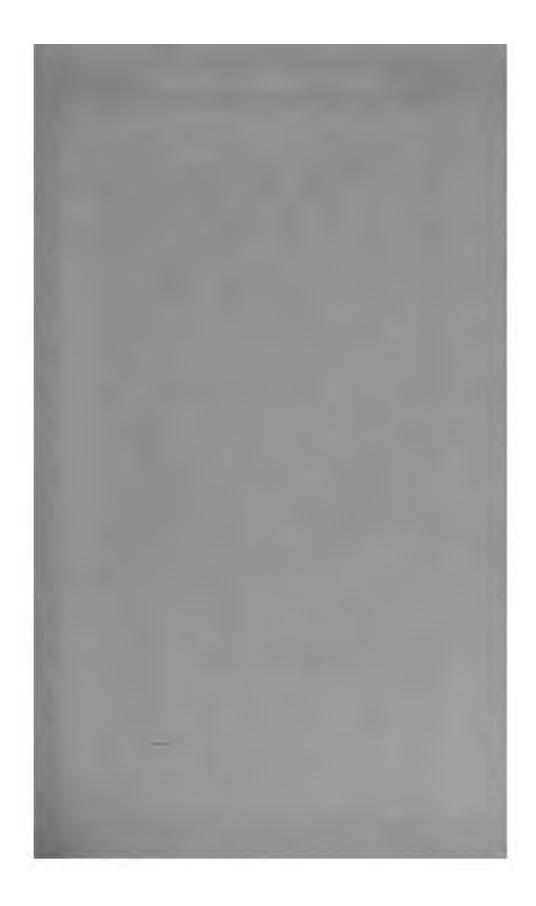
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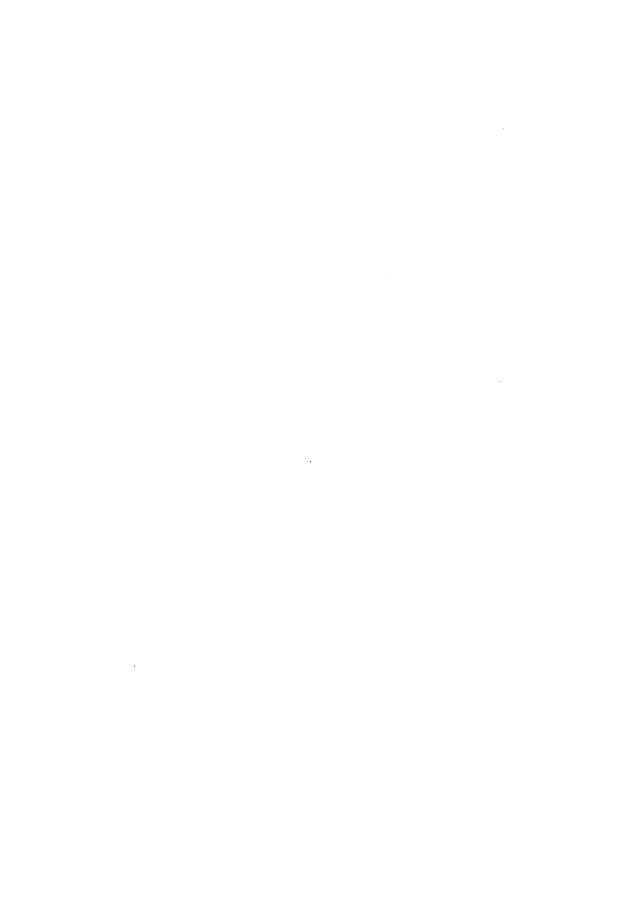
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### THE SECRETARY OF THE TREASURY,

#### COMMUNICATING,

In compliance with a resolution of the Senate of the 12th of March, 1863, a statistical and general report upon the value and present condition of our foreign and domestic commerce.

#### TREASURY DEPARTMENT, June 25, 1864.

SIR: The following resolution was adopted by the Senate of the United States on the 12th March, 1863:

"Resolved, That the Secretary of the Treasury be directed to have prepared and presented to the Senate a statistical and general report upon the value and present condition of our foreign and domestic commerce, including as well that of the Pacific coast; and, further, to suggest what legislation, if any, is necessary to protect the important interests involved."

In response to this resolution, the Secretary has caused to be prepared, and has the honor herewith to transmit, a series of statements covering the wide range of inquiry contemplated by the call of the Senate, as completely as the accessible sources of information have enabled him to do.

The contents of this report may be generally described and classified as follows:

First. A historical and analytic review of the foreign commerce of the United States from the beginning of the government.

Second. An exhibit of the existing internal commerce between the Atlantic and Mississippi States.

Third. The overland trade and communications with the Pacific States.

Fourth. The foreign commerce of the Pacific coast.

Fifth. The international relations of the northern frontier of the United States with British and Russian America.

The first of these general divisions embraces a statement of the tonnage employed and the values exchanged in our foreign commerce generally, with the varying proportions of foreign and American tonnage. It exhibits a general view, historical and statistical, of the carrying trade of our international exchanges, distinguishing the trans-oceanic tonnage from that employed in trade with the British possessions in North America; the course of the carrying trade in the great geographical divisions of our foreign commerce; its increase and decrease with the principal foreign countries; the total value of the exchanges; the international movement of the precious metals; and the periodic



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### FOREIGN COMMERCE

### THE UNITED STATES.

### TONNAGE AND TRADE.

The foreign commerce of the United States has undergone changes within the last forty years, in value, geographic distribution, and agencies employed, which are not indicated by the ordinary official publications with the clearness and force required for the direction of legislation concerning it. The resolution of the Senate recognizes these deficiencies, and is understood to authorize whatever range of inquiry may be demanded for a better exhibition and explication

of the history and present condition of our international trade.

The United States began an extraordinarily extended and unusually successful commercial career very soon after the establishment of the government. The condition of Europe for a long period was such that American shipping became of necessity the preferred channel for conducting far the larger share of the commerce of the world. We were not limited to the carriage of merchandise of American production abroad and the return of foreign articles required in our own consumption, but for a series of years entered at, and again exported from our ports, a larger aggregate of values on account of foreign nations than for the entire use of the United States.

It could not, of course, be expected that with the most rapid and successful development of the United States this ascendency in general commerce would be maintained, but the facilities obtained by a preoccupation of extensive and profitable lines of trade between countries possessing no commercial marine directly, and also between these and the commercial and manufacturing states which are their permanent natural markets, should have secured to the shipping of the United States an equal division of all trade between non-commercial states and a share of the carrying trade wherever exclusion by positive legislation does not exist. Still more decidedly should the control of all carrying trade to our own markets have been retained, and the increased consumption of the products of tropical countries necessarily attending on the growth and increasing wealth of the United States, might reasonably be supposed to give employment almost exclusively to American shipping. Crude products of the United States exported, and crude products of tropical latitudes imported for consumption here, constitute a permanent trade which need not pass from American hands.

The statistics of shipping and tonnage, distinguishing the proportions of American and foreign, employed in the commerce of the United States, are the readiest and most directly available guide to the general course of trade from the beginning. Previous to 1821 the statements are designated the "tonnage engaged in the foreign trade," and subsequent to 1821 "the tonnage entered and cleared at all the ports" are the specific statements given. It is probable that the first designation is so nearly identical with the second that no modification of either is necessary in making a continuous comparison, but as a division is required for convenience simply, the first of the following tables bring

the series of years down to 1821, of "tonnage engaged in the foreign trade;" and the second gives the tonnage of vessels entered the several ports of the United States for each year of the period following, to 1863.

The large values of foreign merchandise exported from the United States, which are given in detail in another place, necessarily imply the employment of a great amount of American tonuage, since very little of the carrying trade between neutral nations could be in the hands of any belligerent power, and nearly all Europe was long involved in war. Even after the peace of 1815 there were intervals of disturbance, and frequent occasions in which the carrying trade was largely resumed by our shipping. The magnitude of the interest we had in certain years is striking. Beginning at 605,513 tons, in 1790, the tonnage in foreign trade rose to 1,106,572 tons in 1801, and to 1,203,021 tons in 1807, of which but seven per cent. was foreign in the last-named year. The proportions of foreign tonnage to the total engaged in foreign trade for the average of periods of five years, from 1789 to 1821, is as follows: 1789 to 1793, 37.1 per cent.; 1794 to 1798, 10.6 per cent.; 1799 to 1803, 15.6 per cent.; 1804 to 1808, 8.9 per cent.; 1809 to 1813, 9.9 per cent.; 1814 to 1818, 22.1 per cent.; 1819 to 1821, 9.5 per cent.

As a rule, the proportion of American tonnage increased directly with the absolute amount employed. In the two years of least trade, 1789 and 1814, nearly half the tonnage was foreign. In 1811, with nearly 1,000,000 tons engaged, but 3.3 per cent. was foreign; an exceptional state of affairs due to the violence of the European wars then waged. The following is the detail of each description of tonnage employed in the foreign commerce of the United States for each year, from 1789 to 1821, with the calculated proportion of foreign:

American and foreign tonnage engaged in the foreign trade of the United States, 1789 to 1821.

Years,	American, tons	Foreign, tons.	Total, tons.	Per-centage of foreign.	Years.	American, tons	Foreign, tons.	Total, tons.	Per-centage of foreign.
1789	127, 329	106,654	233, 983	45.5	1806	1,044,005	91, 084	1,135,089	8.0
1790	354, 767	250,746	605, 513	41.4	1807	1,116,241	86, 780	1,203,021	7. 2
1791	363, 662	240,548	604, 210	39.8	1808	538,749	47, 674	586, 423	8.1
1792	414,679	244,278	658, 957	37.0	1809	605, 479	99, 205	704, 684	12.6
1793	447,754	163,566	611, 320	26.7	1810	908,713	80, 316	989, 029	8.1
1794	525, 649	82,974	608, 623	13.6	1811		33, 202	981, 449	3, 3
1795	580, 277	56,832	637, 109	8.9	1812	668, 317	47, 098	715, 415	6. 5
1796	675, 046	46,846	721, 892	6,4	1813	237, 501	113, 827	351, 328	32.3
1797	608, 078	72,757	680, 835	10,6	1814	59,786	48, 301	108,087	44.6
1798	522, 245	87,760	610,005	14.3	1815	700, 500	217, 413	917, 913	23. 6
1799	624, 839	107,583	732, 422	14.6	1816	877, 462	258, 724	1,136,186	22.7
1800	682,871	121,403	804, 274	15.0	1817	780, 136	212, 166	992, 302	21. 2
1801	849, 302	157, 270	1,006, 572	15.6	1818	755, 101	161, 414	916, 515	17.6
1802	798, 805	145, 519	944, 324	15.4	1819	783, 579	85, 898	869, 477	9.8
1803	787, 424	163,714	951, 138	17.2	1820	201, 253	78, 859	880, 112	8.9
1804	821, 962	122, 141	944, 103	12,9	1821	769, 084	82, 915	851,999	9.7
1805	922, 298	87,842	1,010,140	8.6		4000		100	1

#### Averages of five-year periods.

1789 to 1793 1794 to 1798 1794 to 1803	582, 259 748, 648	69, 433 139, 098	651, 692 867, 746	10.6 15.6	1809 to 1813 1814 to 1818 1819 to 1821	634, 597	74, 729 179, 603 82, 558	748, 381 814, 200 867, 196	9. 9 22. 06 9. 5
1804 to 1808	888, 651	87, 104	975, 755	8.9				1	

In the next series of years, or from 1821 to 1837, the rapid increase of foreign tonnage is apparent, commencing most decidedly in 1831 and 1832. After this date, notwithstanding the aggregate increase is four-fold in 1849 and seven-fold

in 1863, as compared with the average of 1820 to 1830, the proportion of foreign maintains its position at 36 to 40 per cent of the whole. In the tables as they stand a large aggregate of tonnage entering from Canada is included in the American, which is, to a considerable extent, mere ferry tonnage, and should be excluded from the comparison. The average to be so excluded would be 250,000 tons annually for five years previous to 1859, and 500,000 to 600,000 tons for each year from 1859 to 1863, inclusive.

During this period of forty-two years there was no marked event in the history of the United States to affect the progressive advance in general trade. It is evident, however, that, not only was the foreign carrying trade steadily passing from our shipping to other hands, but also the direct commerce of the United States with all other countries was steadily encroached upon, each year adding a greater number of foreign than of American vessels to the general commercial marine. At the date of the introduction of steam in transatlantic commerce the accession of foreign tonnage was more marked than at any other time subsequent to 1832; and correcting the account to transatlantic commerce distinctively, by throwing out the trade with the Canadian border, the proportion of foreign becomes greater.

Aggregate of tonnage entering the parts of the United States from foreign countries, 1821 to 1863, with the proportion of foreign.

Years,	American, tons.	Foreign, tons.	Total, tons.	Per-centage of foreign.	Years.	American, tons.	Foreign, tons.	Total, tons.	Per-centage of foreign.
1821	765,098	81,526	846,624	9.6	1843, 9 mo's .	1,143,523	534,752	1,678,275	31.8
1822	787,961	100,541	888,501	11.3	1844	1,977,438	916,992	2,894,430	31.6
1823		119,468	894,739	13, 4	1845	2,035,486	910,563	2,946,049	30. 9
1824	850,033	102,367	952,410	10.7	1846	2,151,114	959,739	3,110,853	30.8
1825	880,754	92,927	973,681	9.5	1847	2,101,359	1,220,346	3,321,705	36. 7
1826		105,654	1,047,860	10, 08	1848	2,393,482	1,405,191	3,798,673	36. 9
1827	918,361	137,589	1,055,950	13.03	1849	2,658,321	1,710,515	4,368,836	39.1
1828	868,381	150,223	1,018,604	14.7	1850	2,573,016	1,775,623	4,348,639	40.8
1829	872,949	130,743	1,003,692	13.02	1851	3,054,349	1,939,091	4,993,440	38. 8
1830	967,227	131,900	1,099,127	12.0	1852	3,235,522	2,057,358	5,292,880	38.8
1831	922,952	281,948	1,204,900	23.4	1853	4,004,013	2,277,930	6,281,943	36.1
1832		393,038	1,342,660	29, 2	1854	3,752,115	2,132,224	5,884,339	36. 2
1833		496,705	1,608,146	30.8	1855	3,861,391	2,083,948	5,945,339	35. 0
1834	1,074,670	568,052	1,642,722	34.5	1856	4,385,484	2,486,769	6,872,253	36. 2
1835	1,352,653	641,310	1,993,963	32, 1	1857	4,721,370	2,464,946	7,186,316	34. 3
1836	1,255,384	680,213	1,935,597	35, 1	1858	4,395,642	2,209,403	6,605,045	33. 4
1837	1,299,720	765,703	2,065,423	37.07	1859*	5,265,648	2,540,387	7,806,035	32.5
1838		592,110	1,895,084	31.2	1860	5,921,285	2,350,911	8,275,196	28.4
1839	1,491,279	624,814	2,116,093	29, 5	1861	5,023,917	2,217,554	7,241,471	30.6
1840	1,576,946	712,363	2,289,309	31.1	1862	5,117,685	2,245,278	7,362,953	30.5
1841	1,631,909	736,444	2,368,353	31.1	1863	4,614,698	2,640,378	7,255,076	36. 4
1842	1,510,111	732,775	2,242,886	32.6	Transfer of		10000		100

In 1862 and 1863 the tonnage entered from Canada amounted to totals quite disproportionate to the commerce, it being:

	American.	Foreign.
1862tons	2,487,373	683,411
1863tons	2,307,233	743,136

Excluding this, much of which was steam ferry tonnage, the proportion of foreign shipping in the foreign trade of the United States in the fiscal year 1862-'63 was 45.1 per cent. of the whole:—Tonnage in foreign trade#1862-'63, American, 2,307,465 tons; foreign, 1,897,242 tons.

<sup>\*</sup>A deduction of at least 600,000 tous from American tonnage abould be made on this and each following year for the duplicated tonnage of steam ferry-boats at Buffulo chiefly, and in less degree at Ogdenubuzg and Cape Vincent.

During the fiscal year current, 1863-'64, the reduction of American tonnage has been greatly accelerated from extraordinary and unusual causes, until the direct foreign trade conducted in American bottoms has been almost annihilated.

In the preceding statements it has been the purpose to show the normal course of trade in periods of peace, and to prepare matter for a fair judgment of the state of affairs and the tendencies of trade abroad anterior to the war. It cannot be doubted that there was a serious decline of the foreign trade properly belonging to the United States dating back at least to 1832, and a change in progress, which is more fully disclosed by the statistics giving the values of imports and exports.

The following named countries sent us absolutely less tonnage, both American

and foreign, in the year 1861 than in 1821, forty years previous:

	1821.	1861.
Russiatons	13,827	12,157
Prussiatons	726	400
Swedish West Indiestons	13,946	1,684
Sweden and Norwaytons	13,381	13,330
Danish West Indiestons	41,096	14,919
Gibraltar and Maltatons	11,666	2,770
French West Indiestons	41,729	2,616
Canary islandstons	2,329	2,012
Portugaltons		7,417
Honduras and Campeachytons	<b>5,</b> 35 <b>7</b>	3,849
Haytitons		39,640
Madeira islandstons		1,135
Cape Verde islandstons	5,038	2,360

These are comparatively unimportant countries, however, and the diversion of trade from direct channels is not so clearly shown by details of tonnage as by actual imports of merchandise. For the purpose of this comparison of values, two years better representing the periods may perhaps be selected—1828 and 1860—in both of which trade was healthy and importations full, but not excessive. No disturbance of the usual condition of any considerable foreign country existed in either year which could of itself divert trade from its accustomed channels. The total imports in 1828 were \$88,509,824, and in 1860 \$362,163,941. The re-exports were \$21,595,000 in the first-named year, and \$26,933,000 in the last named. The following table classifies the details from each country, showing which have increased and which have declined, both positively and relatively:

Countries from which the imports to the United States have positively declined from 1828 to 1860.

Imports from—	In 1828.	In 1860.	Imports from-	In 1828.	In 1860.
Russia. Prussia. Sweden and Norway. Swedish West Indies. Denmark. Danish West Indies. Dutch West Indies.	1, 570, 788	\$1, 557, 858 36, 464 514, 191 18, 793 16, 509 200, 416 396, 644	Gibraltar French West Indies Hayti Canary islands Madeira Cape Verde islands Paru	2, 163, 585 222, 740	\$65, 963 162, 826 2, 062, 723 18, 886 23, 773 51, 625 306, 452

### Countries from which the imports have declined relatively to the total imports.

Imports from—	In 1828. In 1860.		Imports from—	In 1828.	In 1860.	
Holland Scotland Ireland. Spain on Atlantic. Portugal. Austria.	711, 041 210, 694 112, 359	\$2, 869, 959 4, 607, 187 923, 726 651, 594 146, 813 732, 645	Turkey, the Levant, and Egypt. China. Central America. Chili. Sicily and Italy.	781, 863	\$1, 176, 650 13, 556, 587 331, 258 2, 072, 912 4, 734, 518	

## Countries from which the imports have positively and relatively increased from 1828 to 1860.

Imports from—	In 1828.	In 1860.	Imports from—	In 1828.	In 1860.	
Hamburg and Bremen.  Dutch East Indies.  England  British East Indies.  Ritish West Indies.  Canada and the provinces.  France on Atlantic.  Franceson Mediterranean.  Spain on Mediterranean.	113, 462 30, 476, 139 1, 542, 736	133, 065, 571	Philippine islands	\$60, 381 6, 123, 135 1, 129, 130 70, 328 1, 484, 856 3, 097, 752 317, 466	\$2, 886, 166 34, 032, 276 4, 512, 935 355, 551 6, 727, 032 21, 214, 803 4, 020, 848	

The proportions of general increase were a little more than four in 1860 to one in 1828, both being above the average of the general series, and represent-

ing two conspicuous points of full and legitimate trade.

The countries from which importations have either positively or relatively declined, are generally those which produce and export crude articles, the exceptions being the countries producing sugar, coffee, and tea. The produce of these last has been immensely stimulated by the growth of population in the United States and the ease of living, and consequent changed habits of the people. This maintains a demand so large that the carriage of supplies is not so easily diverted as in case of crude articles which are the elements of manufacture. It is these last which we are losing chiefly, and of which the loss is important for other reasons than the mere profit of the carrying trade.

It must be observed that these statements refer only to the direct trade from the countries named, and include none of the importations of their products which reach us through other channels. A large and steadily increasing volume of such indirect trade has long existed. The products of Russia reach the United States by way of England and the German states, as do those of Sweden and Norway. Indeed, the tropical products and special exports of the entire list of countries with which our direct connexion appears to have declined, are now brought through the channels named in large proportions, as will be shown

by the statements of imports which follow.

As the proportion of foreign shipping engaged in the foreign trade of the United States, is believed to be directly associated with the limitation of our commerce, both direct and indirect, with the greater number of foreign countries, the statements bearing on both points have been introduced indiscriminately. The following summary of the values imported annually by each class of vessels is the natural successor of the detailed comparison of values from each country for 1828 and 1860. The imports have so far been taken as the best illustration of the relations held by the United States to foreign countries, because they

were made the basis of a large carrying trade, supplying other countries with merchandise not of our own production, and therefore not permanently within our control. In continuation, the condition of our export trade will be stated, showing to what extent that has undergone modifications similar to those apparent in the import trade.

Value of imports of the United States in American and foreign vessels, 1821 to 1863.

Years.	In American vessels.	In foreign vessels.	Total imports.	Years.	In American vessels.	In foreign vessels.	Total im- ports.
1821	\$58,025.906	\$4.559.818	\$62,585,724	1844		\$14,260,362	\$108,435,035
1822		6.257,210	83,241,541	1845		14,816,083	117,254,564
1823		6,067,726	77,579,267	1846		15,683,624	121,691,797
1824		5,283,953	80.549,007	1847		33.404.281	146,545,638
1825		4,437,563	96,340,075	1848		26,351.696	154,998,928
1826		4, 196, 357	84,974.477	1849		27,475.287	147,857,439
1827		4.518,572	79.484,068	1850		38,461,275	178, 138, 318
1828		6,558,505	88,509,824	1851	163,650,543	52.574.389	216,224,932
1829		5,166,975	74,492,527	1852	158,258,467	54,686,975	212.945.442
1830		4.841,181	70,876,920	1853	191,688,325	76,290,322	267,978,647
1831		9,229,014	103, 191, 124	1854	217,376,273	87, 186, 108	304,562,381
1832	90.298,229	10.731.037	101,029,266	1855	202,149,340	59, 233, 620	261,352,960
1833	98,060.772	10,057,539	108,118.311	1856	249,972,512	64,667,430	314,639,942
1834	113,700,174	12,821,158	126,521,332	1857	259,116,170	101,773,971	360,890,141
1835	135.228.865	14,606,877	149,895,742	1858	203,700,016	78,913,134	182,613,150
1836	171,656,442	18.3:3,593	189,980,035	1859	216,123,428	122,644,702	338,768,130
1837		18,812,024	140,989,217	1860	228, 164, 855	134,001,399	362, 166, 254
1838		10,629,956	113,717,404	1861	201,544,055	134,106,098	335,650,153
1839	143,874,252	18,217,880	162,092,132	1862		113,497,639	205,771,729
1840	92,802,352	14,339.167	107,141,519	1863	109.744.580	143, 175, 340	252.919.920
1841		14,724,300	127,946,177	1863, 3d gr		46.114.529	65, 148, 478
1842		11,4:7,807	100,162,087	1863, 4th qr		56,531,754	75,587,153
1843, 9 months		14,781,924	64,753,799	45.11			

Value of exports, the produce of the United States, in American and foreign vessels, 1821 to 1863.

Years.	In American vessels.	In foreign vessels,	Total ex- ports.	Years.	In American vessels.	In foreign vessels.	Total ex- ports.
1821	\$34.465,272 39,931,913	\$9,266,622 9,942,166	\$43.671.894 49.874.079	1844	\$69,706,375 75,483,123	\$30,008,804	\$99,715,179 99,299,776
1823	39,074,562	8,080,846		1846		23.816,653	102.141.893
1894			47,155,408			52,796,192	150,310,604
		7,904,881 8,628,650	50,649,500	1847		37,359,904	132.904.121
1825		6,856,182	66,944,745	1849		41.303.647	132 666.955
1827		8.816,312	53,055,710 58,9/1,691	1850		47,330,170	136,946,912
1828		9,539 563	50,669,669	1851		58,755,179	196.689.718
1829					137,934,539	65,028,437	192,368,984
		8,725,639	55,700,193	1852	127,340,547		
1830		8.355,839	59,462,029	1853	142,810,026	70,607,671	213.417.697
1831		11,605,818	61,277,057	1854		75,947,533	252.047.806
1832		16.211,580	63, 137, 470	1855	182.885,249	63.823,304	246,708.553
1833		17,332,252	70,317,698	1856		90,295,187	310.586,330
1834		19,738,043	81,024,162	1857		106, 169, 239	338.985,065
1835		22,166,336	101,189,082	1858		71,799,547	293,758,279
1836		26,071,237	106,916,680	1859	234,322,727	101,571,658	335,894.385
1837		20,081,893	95,564,414	1860		110,602,697	373,189,274
1838		16,178,222	96,033,821	1861	166,546,339	62,153,147	228,699,486
1839		21,406,377	103,533,891	1862		94,881,628	213,069,519
1840		21,864,736	113,895,634	1863	122,478,563	183,406,435	305,884,996
1841		23,813,333	106,382,722	1863, 3d qr		51,030,888	64,635,356
1842	71,467,634	21,502,362	92,969,996	1863, 4th qr	13,284,898	58,144,033	71,428,931
1843, 9 months	60,107,819	17,685,964	77,793,783		100000000000000000000000000000000000000		

Exports, the produce of the United States, in American and foreign vessels for the quarter ending September 30, 1863.

Ports.	American.	Foreign.	Total.
Passamaquoddy	\$273,996	<b>\$</b> 19,068	<b>\$</b> 293, 064
Other ports of Maine	194,006	18,490	212, 496
Portland	133, 898	65, 870	199,768
Portsmouth, N. H		2,446	2,446
Salem	42, 369	2,854	45, 223
Boston and Charlestown	772, 665	2,527,416	3, 300, 081
Other ports of Massachusetts	45, 944	8,983	54,927
Ports of Rhode Island	22, 265	1,507	23,772
New Haven and ports of Connecticut	146, 726	4,596	151,322
New York	7,076,069	42, 317, 769	49, 393, 838
Champlain	630,705	<b></b>	630,705
Lake ports of New York	239, 649	792, 449	1,032,098
Erie, Pennsylvania	3, 552	100, 338	103,890
Philadelphia	508, 341	1,217,791	1,726,132
Perth Amboy, N. J	2, 238		2, 238
Wilmington, Delaware	18,095	14,719	32, 814
Beltimore	775, 482	1, 123, 328	1,898,810
Key West		568	568
New Orleans	48, 234	149, 407	197, 641
Lake ports of Ohio	98, 431	362,615	461,046
Detroit	64, 271	39,665	103, 936
Chicago	335,762	626, 982	962,744
Milwaukie	121, 119	844,867	965,986
San Francisco	1,937,441	750,956	2, 688, 397
Oregon	18,555		18, 555
Puget's Sound	94, 655	38, 204	132, 859
Total	13, 604, 468	51,030,888	64, 635, 356
			_;

Exports, the produce of the United States, in American and foreign vessels for the quarter ending December 31, 1863.

Ports.	American.	Foreign.	Total.
	A041 005	<b>A</b> 0.000	Ann. new
Passamaquoddy	\$341,385	\$9,882	\$351,267
Other ports of Maine	168, 967	40,596	209, 563
Portland	467, 308	361,717	829, 025
Portsmouth, N. H		976	976
Salem, Massachusetts	19,072	1,582	20,654
Boston and Charlestown	1, 177, 810	2,955,863	4, 133, 673
Other ports of Massachusetts	66,740	68,850	135,590
Ports of Rhode Island	32,012	360	32, 372
New Haven and ports of Connecticut	135, 922	26,582	162,504
New York	5, 686, 959	47,000,409	52, 687, 368
Champlein	1,020,452	1 1	1,020,452
Champlain Lake ports of New York	162, 299	890,640	
Brie, Pennsylvania	102, 233		1,042,939
Told John Live	12,564	75, 143	87,707
Philadelphia. Ports of New Jersey	804, 921	1,578,747	2, 383, 668
Ports of New Jersey	8, 242	10	8,252
Whimington, Delaware	2,083	11,387	13, 470
Baltimore	491, 290	1,703,992	2, 195, 282
Key West	4,996	1,558	6,554
New Orleans	102, 839	746, 451	<b>849, 29</b> 0
Lake ports of Ohio	17, 887	52,055	69, 942
Detroit	68,552	355, 367	423, 919
Chicago	156,638	818,870	

### Exports, the produce of the United States, &c .- Continued.

Ports.	American.	Foreign.	Total.
Milwaukie San Francisco Oregon Puget's Sound	\$6,955 2,211,883 16,594 100,528	\$284, 916 1, 339, 666 68, 966	\$291, 871 3, 551, 549 16, 594 169, 494
Total	13, 284, 898	58, 144, 033	71, 428, 931

# Imports in American and foreign vessels from foreign countries, 1862-'63, (fiscal year.)

Countries.	American.	Foreign.	Total.
Russia on the Baltic	<b>\$</b> 625, 835	\$97,452	\$723,287
Russia on the Black	109,680	116, 251	225, 931
Russian possessions in North America	27,836	11,912	39,748
Prussia	920		920
Sweden and Norway	23,730	309, 443	333, 173
Swedish West Indies	17, 313	14,990	32, 303
Denmark	107	11,000	107
Danish West Indies.	132,732	148,999	281,731
Hamburg	205, 970	7,507,856	7,713,826
Bremen	104, 240	5, 664, 323	5,768,563
Holland	253, 501	1, 293, 013	1,546,514
Dutch West Indies	49, 948	453, 594	503,542
Dutch Guiana.	162,736	167, 303	330, 039
Dutch East Indies	230, 676	172,076	402,752
Belgium England	`691,156	1,800,816	2,491,972
	24,785,786	85,679,841	110, 465, 627
Scotland	605,656	1,852,230	2,457,886
Ireland	65, 104	148,083	213, 187
Gibraltar	31, 174	60,628	91,802
Malta	22,518	59	22,577
Canada	14,964,716	3,849,124	<b>~18,813,840</b>
Other British North American possessions	2,407,889	2,799,535	5, 207, 424
British West Indies	777,994	1,300,481	2,078,475
British Honduras	119,624	253,800	373, 424
British Guiana	110,821	200,721	311,542
British possessions in Africa	1,272,716	490, 432	1,763,148
British Australia	3,744	12,353	16,097
British East Indies	4, 903, 400	513, 299	5, 416, 699
France on Atlantic	3, 182, 524	4,012,492	7, 195, 016
France on Mediterranean	1, 327, 663	2,068,945	3,396,608
French North American possessions		44, 254	44,254
French West Indies	4,382	17,923	22,305
French Guiana	17,016		17.016
Spain on Atlantic	150, 350	342, 154	492, 504
Spain on Mediterranean	892, 021	618,044	1,510,065
Canary islands	7, 152	3, 309	10, 461
Philippine islands	1,806,279	76,980	1,883,259
Cuba	16, 048, 052	5, 486, 013	-21,534,065
Porto Rico	1,787,898	944, 578	2,732,476
Portugal	24,092	152, 175	176, 267
Madeira	9,524		9,524
Cape de Verde Islands	13,050		13,050
Azores	19, 209	27,490	46,699
Sardinia	105, 407	199, 689	305,096
Tuscany	637, 268	, 345, 182	982, 450
Papal States	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	21, 196	1 000, 200

Imports in American and foreign vessels, &c.—Continued.

Ports.	American.	Foreign.	Total.
Two Sicilies Austria Greece. Turkey in Europe. Turkey in Asia. Other ports in Africa. Hayti. San Domingo. Mexico Central Republic. New Granada. Venezuela Brazil Uruguay, or Cisplatine Republic. Buenos Ayres, or Argentine Republic. Chili Peru Sandwich Islands Other islands in Pacific Japan China Whale fisheries Uncertain places.	\$1, 122, 522 21, 837 27, 928 631, 147 1, 193, 460 834, 388 98, 993 2, 052, 415 142, 707 1, 710, 846 654, 221 5, 912, 927 516, 298 3, 733, 910 1, 691, 467 51, 365 628, 572 26, 480 61, 902 9, 623, 327 268, 356	\$714, 415 187, 440 28, 012 325, 215 316, 629 743, 668 201, 288 2, 477, 169 41, 838 248, 022 874, 870 5, 032, 549 124, 712 767, 912 275, 446 105, 296	\$1, 836, 937 209, 277 28, 012 27, 928 956, 362 1, 510, 089 1, 578, 056 300, 281 4, 529, 584 1, 529, 091 10, 945, 476 641, 010 4, 501, 822 1, 966, 913 156, 661 628, 572 108, 615 73, 851 ~10 961, 064 268, 356
Total	109, 744, 580	143, 175, 340	252, 919, 920

American and foreign tonnage entering the ports of the United States, third and fourth quarters of 1863.

	THIRD Q	UARTER.	FOURTH QUARTER.	
Ports.	American.	Foreign.	American.	Foreign.
Eastport, Passamaquoddy, Maine Portland, Maine Other ports of Maine Portsmouth, New Hampshire Boston Other ports of Massachusetts Providonce and ports of Rhode Island New Haven and ports of Connecticut New York Lake ports of New York Ports of New Jersey Philadelphia Erie, Pennsylvania Wilmington, Delaware Baltimore Ksy West Lake ports of Ohio Datroit Chicago Milwankie Sen Francisco and Oregon	11, 299 5, 658 49, 581 15, 944 4, 809 5, 056 218, 901 173 32, 016 603 161 13, 455 1, 530 9, 930 45, 911 40, 075 28, 045		178, 407 265, 108	2, 981 24, 410 3, 228 1, 471 10, 802 4, 251 1, 688 371, 809 192, 962 704 19, 014 5, 258 16, 920 2, 186 6, 046 60, 700 17, 062 5, 003 15, 489
	566, 588	733,078	780, 528	762,04

In regard to the carriage of these exports, the above tables disclose some remarkable facts. Beginning with a proportion averaging less than one-fifth in foreign vessels for the first ten or twelve years, the proportion in 1862—'63 is three-fifths, and for the two remaining quarters, closing the calendar year 1863, the proportion is four-fifths of the whole carried in foreign vessels, and but one-fifth in American; thus precisely reversing the relations of the two classes existing in 1821, and, indeed, continuing to exist to 1831.

But it is important to separate the unusual state of affairs resulting from the war, from the course of events preceding it, and to distinguish the changes then attained, in order to decide upon all the questions involved. Taking the year 1860 as a fair representative of this previous period, the proportion of the total exports which was carried in foreign vessels was 29.6 per cent., and of the five years closing with 1860, 29.5 per cent. For the first five years of the table, 1821 to 1825, the proportion was but 16.6 per cent. carried in foreign vessels.

The change, therefore, is only in part due to the dangers at present incurred by American shipping. Not only are the absolute values large which fell to the hands of fore gn carriers previous to 1861, but the proportions are doubled over those existing in the period first stated in the above tables. Taking the comparison further back the disproportion is greater, large encroachments having been established even in 1821 upon the business of American shipping in the carriage of domestic produce to foreign markets.

The imports exhibit a similar course of change from American to foreign hands. The average of the first five years was \$5,300,000 in foreign vessels, out of a total of \$80,000,000, only 6.6 per cent. In 1832 they had risen to 10 per cent. of the total; in 1848 and 1849 to an average of 20 per cent.; in 1853 to 30 per cent.; and in 1859 and 1860 to 40 per cent. In the fiscal year 1861-'62 they exceeded the total in American vessels by twenty millions of dollars, and in 1862-'63 by thirty-four millions of dollars. In the last six months of the calcular year 1863 they were nearly three times the imports in American vessels, being as follows:

T-	American vessels.	In foreign vessels
Quarter ending September 30, 1863	<b>\$</b> 19, 033, 949	<b>\$</b> 46, 114, 52 <b>9</b>
Quarter ending September 30, 1863	18, 935, 399	56, 551, 754
Six months		102, 666, 283 nese two quarters
were	American vessels.	In foreign vessels.
Quarter ending September 30	7, 829, 110	38, 210, 593
Quarter enting between ber 30		
Quarter ending December 31	5, 994, 785	43, 321, 712

It may be stated that the loss of the great carrying trade conducted by American shipping during the European wars has more than once received earnest public attention. Two or three European States, and particularly France, almost immediately on the establishment of peace, built up a severe system of discriminations against all other shipping than their own. These discriminations were carried to a most injurious length, and were the subject of earnest remonstrance. The effect of the action of France is still seen in the remarkably limited amount of our present direct trade with that country, and for other states the results are quite as striking. In a forcible memorial addressed to Congress by the Chamber of Commerce of New York in 1821, the first decisively adverse effects of the new policy of European states is thus stated:

"It is a lamentable fact that more than half the number of vessels lately arrived at this from foreign ports are dismantled, from the absolute absence of any advantageous object of commercial pursuit; and this state of commerce

seems the natural and necessary result of the new order of things which has prevailed since the pacification of Europe. Every restraint that lately shackled the navigation of the principal maritime nations of Europe has been removed, whilst the general trade and navigation of those states are, at the same time, regulated with a studious regard to the interests of their own subjects, so that the United States have not only ceased to be the carriers for Europe, but are deprived of the means of entering into a fair competition in the transportation to foreign countries of the principal products of their own soil."

This is a just statement of the adverse action of France, more particularly, by which the United States shipping was first seriously curtailed of its due share of foreign trade. The discriminations then made by France were not in the form of tonnage dues and port charges so much as in specific charges imposed upon American produce imported in American ships, which charges are

stated in this memorial to be as follows:

"The foreign or discriminating duties paid by American vessels importing the following articles into France are: 1½ cent per pound (French) on cotton; 1½ cent per pound on tobacco; 55 cents per 100 pounds on potashes; which extra duties exceed the whole freight now paid for the transportation of those articles from the United States, whether in French or in American bottoms. To form an estimate of the practical result of these regulations it will be assumed that a vessel of 300 tons register will carry 560,000 pounds weight of tobacco, the difference of duty on which, at 1½ cent per pound, would be \$6,300, equivalent to twenty-one dollars per registered ton; or, in a vessel of the same description carrying 280,000 pounds of cotton and 220,000 of potashes, the difference of duty at 1½ cent for the cotton is \$4,200, and at 55 cents per 100 pounds on the ashes, is \$1,200—together, \$5,400—which is equivalent to eighteen dollars per registered ton.

"The aggregate tonnage employed in the direct trade to France is estimated at 50,000 tons, in addition to which an indirect trade of considerable extent has been carried on by the circuitous channel of England, the saving in the duties by reshipping our cotton and tobacco thence to France in French vessels, instead of shipping them direct from the United States in American vessels, being more than equivalent to the extra freight and charges attending the additional

vovage."

This apparently remote action is here cited because it was one of the events marking the beginning of a system of diversion of our own commerce from direct lines, which has continued to increase to the present time. The export of American produce passes through foreign distributing markets to a great extent, as will be subsequently shown, and the importation of the produce of tropical and non-commercial countries also comes to us at the hands of foreign carriers, and through foreign distributing markets.

The action of the British government in the same direction was even more frequent and persistent, and though interrupted or in other ways rendered nugatory previous to the peace of 1815, the purpose was frequently and distinctly declared. In January, 1791, the British Board of Trade, in a formal report on commercial relations with the United States, announced the policy of giving signal privileges in British home ports to American ships, but refusing all such

equality in the ports of the colonies.

"If Congress should propose that this principle of equality should be extended to the ports of our colonies and islands, and that the ships of the United States should be there treated as British ships, it should be answered that this

demand cannot be admitted even as a subject of negotiation."

"Many vessels now go from the ports of Great Britain carrying British manufactures to the United States; there load with lumber and provisions for the British islands, and return with the produce of those islands to Great Britain. This whole branch of the trade may be regarded as a new acquisition, and was attained by your Majesty's orders in council before mentioned; which has operated to the increase of British navigation compared with the United States in a double ratio, but (since) it has taken from the United States more than it has added to Great Britain."

Various countervailing acts of the United States aided to neutralize this policy, as has been said, until after the general peace of Europe in 1815. In a commercial convention with England, concluded July 3, 1815, the United States conceded the chief point in controversy, trusting to the great development of our trade with the British colonies, and the energy with which it had been conducted, to maintain it under any circumstances. The United States agreed to the equalization of all the conditions of their commerce with the British European ports, but left the regulations controlling trade with the British West Indies and American colonies without stipulation. The consequences were soon felt. The British authorities re-established their old colonial policy and shut American shipping from the West Indian ports. Vigorous remonstrances were made, and in 1818 Congress enacted that the United States should thereafter be closed against British vessels coming from any British colony or territory that was closed against American vessels by any trade regulation. Again, in May, 1820, Congress further prohibited a circuitous trade that had grown up in evasion of the first act, bringing West India produce through Nova Scotia and Canada. The distress caused in the West Indies by these acts compelled the British Parliament to relax the policy which originated them, and for several years following an imperfect and variable succession of attempts to equalize the trade followed, the general policy of which was to preserve a fair share of it to the United States.

In 1830 the British gained an important advantage, however, by the construction placed on an act of Congress of May 20 of that year. It was claimed by the British and colonial organs that they could take, under this new order, the larger share of the carrying trade in American products away from us, and it is evident from the table of exports of domestic produce previously given that they did so. From 1830 to 1833 the exports in American vessels did not increase at all, while those in foreign vessels doubled.

Year.	In American vessels.	In foreign vessels.	Year.	In American vessels.	In foreign vessels.
1830	\$51, 106, 190	\$8, 355, 839	1832	\$46, 925, 890	\$16, 211, 580
1831	49, 671, 239	11, 605, 818	1833	52, 985, 446	17, 332, 252

The increase of British tonnage in the American trade, resulting from this action, is shown in the tonnage entering the United States from the British West Indies and the provinces for the same years:

### Tonnage from West Indies and British Provinces.

Year.	Tonnage from West Indies.		Tonnage from British provinces.	
	American.	British.	American.	British.
1830	22, 428 38, 046 61, 408 53, 537 37, 081	182 23,760 27,209 26,638 18,008	130, 527 92, 672 74, 001 209, 958 173, 278	4, 002 82, 557 108, 671 208, 054 239, 984

#### Total British tonnage entering United States ports:

1829	86, 377
1830	89, 823
1831	211, 270
1832	
1922	383 487
1834	453, 495
1835	529, 922

Of the result of this change, Pitkin states that it gave to foreign carriers the first decided possession of the carrying trade in American staples. "This great increase in British shipping has been occasioned principally by the circuitous trade, so long the favorite object of British statesmen, and which the American government at last voluntarily yielded. This has thrown into the hands of the British a much greater proportion of the carrying trade of the United States, both in domestic and foreign articles, than they have ever before enjoyed, except at the commencement of the general government. "The circuitous trade thus yielded to the British has given them the carriage of no small proportion of the bulky articles of the south, particularly cotton."

This was written in 1835, and it is evident that the point then made of the

This was written in 1835, and it is evident that the point then made of the introduction of a large proportion of foreign shipping into the trade of the United States deserved all the attention it received. From that time forward no decided acts of either government appear to have modified the course of events. Great Britain relaxed the navigation laws at home in 1854, and by so much favored the employment of American shipping in the trade of the British islands. The great extent to which the entire foreign trade passed to British shipping, and the steady growth of their tonnage entering United States ports, is shown in the following table, which continues the comparison previously begun, from 1830 to 1863:

Ex. Doc. 55-2

National character of tonnage entering the ports of the United States-1829 to 1863.

Year.	American,	British.	French.	German or Hanseatic.	Total all countries.
1829	872, 949	86, 377	14,408	7,815	1,003,699
1830	967, 227	87,231	11,256	9,940	1,099,127
1831	922, 952	215, 887	11,701	11,487	1,204,900
1832	949,622	288, 841	22,638	22, 351	1,342,660
1833	1, 111, 441	383, 487	20,917	29,859	1,608,146
1834	1,074,670	453, 495	23,649	26, 199	1,642,725
1835	1, 352, 653	529, 922	15, 457	29,490	1,993,963
1836	1, 255, 384	544,774	19,519	43, 254	1,935,597
1837	1,299,720	543,020	26, 286	90,528	2,065,42
1838	1, 302, 974	484,702	20,570	40,091	-1,895,08
1839	1,491,279	495, 353	22,686	43, 343	2, 116, 09
1840	1,576,946	582, 424	30,701	42,424	2, 289, 30
1841	1,631,909	615, 623	17,030	44,918	2, 368, 35
1842	1,510,111	599,502	15,876	50, 286	2, 242, 88
1843	1, 143, 523	453, 894	13,582	40, 118	1,678,27
1844	2,010,924	766,747	17, 257	60, 222	2,917,73
1845	2,035,486	760,095	11,536	54,962	2,946,04
1846	2, 151, 114	813, 287	13,666	69,790	3, 110, 85
1847	2, 101, 359	993, 210	30,704	92, 291	3, 321, 70
1848	2, 393, 482	1, 177, 104	24,970	92, 178	3,798,67
1849	2,658,321	1,482,707	31,466	78,536	4, 368, 83
1850	2,573,016	1,450,539	30,762	80, 131	4,348,63
1851	3,054,349	1,559,869	25, 252	116,883	4,993,44
1852	3, 235, 522	1,680,712	25,992	143, 800	5, 292, 88
1853	4,004,013	1,871,210	28,813	163, 801	6, 281, 94
1854	3,752,117	1,748,380	21,837	216, 947	5,884,33
1855	3,861,391	1,738,123	18, 236	195, 576	5, 945, 33
1856	4,385,484	2, 152, 892	23, 935	152, 167	6, 872, 25
1857	4,721,370	2,070,926	29, 397	201, 478	7, 186, 31
1858	4,395,642	1,841,912	16, 416	200,741	6,605,04
1859	5,265,648	2,055,110	22, 487	258, 528	7,806,03
1860	5,921,285	1,918,494	23,557	230, 828	8, 275, 19
1861	4,889,313	1,832,971	15, 291	228, 336	7, 151, 35
1862	5, 117, 685	1,836,096	17,008		7, 362, 96
1863	4,447,261	2,096,612	22, 312		7,511,28

To render the above comparison accurate as regards transoceanic commerce, a large reduction of the American tonnage should be made for the entries from Canada. For the ten years, 1854 to 1863, the American tonnage from Canada rose from 1,867,489 tons to 2,307,233 tons—averaging 1,250,000 tons for the first five years, and over 2,000,000 tons for the last five years. The average of British tonnage was about 850,000 tons for the ten years, increasing less from year to year. The transatlantic trade would therefore compare, between American and British, as follows, taking out the actual entries of each class from Canada:

	tons entered.	tons entered.
1958	3,050,925	928, 992
1859	3, 283, 062	991,544
1860	3, 304, 009	1, 280, 458
1861	2, 892, 427	1, 148, 092
1862	2, 630, 312	1, 194, 560
1863	2, 140, 028	1, 353, 476

In the foreign trade of the United States proper, therefore, British shipping approaches much nearer to equality with our own than would appear without the separation of this Canadian trade, a large share of which is really ferry transit, as has before been explained.

#### TONNAGE AND TRADE IN FIVE-YEAR PERIODS, FROM 1821 TO 1863.

The next following thirteen tables exhibit, respectively, the tonnage arrivals from all foreign ports severally, every fifth year from 1821 to 1863, with the per-centage of foreign to the total; the total tonnage entered from all foreign ports, exclusive of Canada and the other British North American possessions; the like exhibit of the shipping engaged in the United States trade with the several countries of Europe, the West Indies, Mexico and South America, Asia, Africa, and miscellaneous countries, and Canada, respectively; and the total value of the imports and exports, with the percentage of each of the great geographical divisions of our foreign commerce, distinguishing the exchanges of the precious metals from those of ordinary merchandise. These tables are intended to exhibit the progress of our commerce during the last forty-two years, the relative value of our trade with the several customer nations, and the changed proportion of distribution; in effect, a tabled history of our commerce and navigation during the period embraced in the statements.

Two other tables are added: one showing the number, class, and tonnage of vessels built in the United States since 1822, and the other giving their distribution among the various branches of our foreign and home commerce.

# General statement exhibiting the tonnage of American and foreign vessels arriv from 1861 to 1863, with the proportion of the for

Countries.		1821.						
	Countries.	American.	Foreign.	Per cent, of foreign.	American.	Foreign,	Per cent. of foreign.	American.
1	Russia	13, 827			17, 349	L. C. T.		8, 93
	Russia Prussia Sweden, Norway, and Denmark Hamburg, Bremen, and other German ports Holland and Belgium England Scotland	12, 193	726 1, 188	100. 0 8. 8	14, 781	207 1, 974	41.3 11.8	70 11, 34
1	man ports	14, 524	4, 180	22.3	14, 537	4,859	25. 05	15, 93
1	England and Beigium	25, 851 112, 053 4, 737	1, 403 39, 024 7, 232	5. 1 25. 8	26, 902	20 225	18.5	24, 07
	Scotland Ireland France on the Atlantic	4, 737	7, 232	61.3	172, 588 5, 857	39, 375 6, 261	51.6	223, 34 5, 67
	Ireland	9, 479	3, 018	24.1	13 937	6, 261 4, 370	99 8	5, 67 4, 38
	France on the Atlantic	11, 431 6, 585	11, 273	49.6	51, 451	7, 514	12.7	40 84
1	Portugal	134 1778	1,015	4.9	91 045	7, 514	1 0	6, 76 5, 04 3, 59
4	Portugal	11, 231	435	3.7	9, 398	442	1.0	3,50
1	Spain on the Mediterranean	11, 231 4, 747 3, 700	563	10.6	5, 066			9, 00
1	France on the Mediterranean	3, 700	838	18.3	9, 426			13, 77
1	Italy, Sicily, and Malta. Austria Turkey, Greece, Egypt, and the Levant Europe generally. French African Possessions	6, 573 2, 018			9, 095 2, 515			12, 76
1	Turkey, Greece, Egypt, and the Le-	2,010						11, 9
1	vant	1,661	192	10.3	3,080		Gires	3, 91
1	Europe generally.	261			499	*********		4, 16
l			**********		465		******	96
I	Other ports in Africa.  Azores. Canary islands Madeira Cape de Verd Islands British East Indies.	1, 231			2, 825	242	7.8	2,5
1	Azores	2, 287 2, 329 4, 140	THE SECTION OF			*********		66
١	Canary Islands	2, 329	140	3.4	1,931			1,90
l	Cape de Verd islands	5, 038	99	1.7	2, 546	209	0.4	2, 5
1	British East Indies	4, 548			5, 981	200	3. 4	5, 3
١					4, 336	**********		2, 5
1	Other Asiatic ports	5, 622			10, 432	*********		4, 3
1	Philippine islands	1,532 742			1 416			2, 9
1	China Other Asiatic ports Philippine islands Australia							m, c/4
1	Other British colonies, including Australia, until 1841 Islands of the Pacific and the north-	796			151	53	26.0	2
1	west coast							35
	Canada Other British North American provinces, including Canada, until 1836 Cuba Porto Rico Hayti and San Domingo. Swedish West Indies. Danish West Indies.							
I	1836	111, 269	405	0.3	74, 884 122, 600	8,706	10.4	92, 9
1	Porto Rico	106, 826	4, 478	4. 02 0. 3	122,600	2,000	2.2	132, 8
1	Hayti and San Domingo	106, 826 14, 536 49, 139	980	1.9	12, 899 26, 192	1, 137	4.1	26, 9
1	Swedish West Indies	13, 083	863	6.3	4, 224	********		26, 4 4, 7
	British West Indies and South	00, 10,	1,689	4.1	37, 347	1, 435	3.7	27, 5
1	American colonies Dutch West Indies and American	32, 631			97, 231	7, 927	7.5	38, 0
1	French West Indies and American	16, 468	422	2.5	13, 591	600	100	11, 29
1	colonies Spanish American colonies until 1824 Mexico	41,729 22,870	1, 053	4.4		5, 442	12.6	26, 70
1			246		25, 524		19.1	22, 3
1	British Honduras	5, 111	246	4. 6	2,940	*********		1, 43
1	New Granada and Venezuela				17, 014	3, 804	18. 2	2, 89 9, 17
1	Brazil	10, 599			24, 590	3, 804 1, 496	5.7	- 29, 8
1	Buance Avree	**********			2 054			27
1	Chili				4, 446			9, 63
1	Peru				5, 192 1, 283			2, 5
1	Other South American ports	10 649			1, 283	163	11.9	70
-	British Honduras Central America New Granada and Venezuela Brazil Uruguay Buenos Ayres Chili Peru Other South American ports Whale fisheries Uncertain places	10, 643			9, 866			29, 58
		FT2 - CT2	81, 526	-	942, 206		-	

ing from each foreign country every fifth year from 1821 to 1860, and annually eign to the total tonnage entered at each period.

1831. 1836,						1841.		1846.			
Foreign.	Per cent. of foreign.	American,	Foreign.	Per cent. of foreign.	American.	Foreign.	Per cent. of foreign.	American.	Foreign,	Per cent. of foreign.	
577 2,999	6. 07	13, 944 341 8, 645	1, 607 274 10, 667	10, 3 44, 5 55, 2	18, 370 357 7, 407	674	3, 5	11, 145 419 3, 509	319 1, 375 10, 219	2.7 76.6 74.4	
12, 175 349 84, 324 11, 008 7, 020 8, 666 1, 451	43.3 1.4 27.4 65.9 61.5 17.5	9, 908 14, 291 235, 749 4, 584 1, 926 75, 217 7, 563 7, 435 3, 433 13, 841 12, 166	36,567 9,035 107,972 20,063 13,798 12,069 1,713 2,819 324 2,778 9,661 4,408 3,938	78.3 38.7 31.4 81.4 87.7 13.8 18.4 27.5 8.6 16.7	109, 504 12, 387 13, 100	35, 484 4, 033 124, 899 23, 118 17, 882 14, 556 716 2, 485 2, 835 4, 302	69. 4 9. 8 28. 8 74. 1 95. 8 11. 7 5. 4 15. 9	24, 872 34, 617 374, 137 10, 715 6, 940 103, 484 8, 112 5, 128 2, 750 9, 889 10, 070	61, 656 11, 552 198, 373 28, 894 28, 279 10, 722 383 2, 037 5, 248 2, 992	71.3 25.05 34.6 72.9 80.2 9.4 4.5 28.4 34.6 22.9	
159	3.4	21, 222 6, 426		16.7 44.2 17.2 37.9	1 1 1 1 1 1 1 1 1 1	5, 854 1, 961	18.06 27.1	25, 974 5, 019	6, 622 592	20.3 10.5	
2,020	32.6	4, 796	2, 449	33. 8	4, 168	704	14.4	7, 398	1,477	16.6	
		1,374			543	203	100.0	994			
397	36, 6		1, 499	18,4	6, 131	1 036	14.4	9, 418	2, 431 202	20.5 11.1 32.0	
397	36, 6	2,577	192	6.9	1,614 2,161	1,428 148	39. 8 5. 6	1, 612	791	32.0	
		1, 696 157	242	12.3	2,504	148	5.6	1,060	396	27.2	
		9, 638			926 6, 408			10.684			
		10, 303			507			3, 226 18, 937	306		
	*****	16, 445 624			11,986 2,279			18,937	306	1.5	
		4,977			2,279 4,366			1, 055 8, 297			
~~		*********		*****	1,850						
		194			693			1, 268	231	15.3	
		222, 762	233, 560	51.1	328, 685	260, 110	44.2		,		
<b>S</b> 2 000	47.0	#F 000	140.000	~ ~	00.000	100 501	00.0	050 704	F15 070	27.7	
<b>3</b> 3, 293 <b>1</b> 9, 639	47. 2 12. 8	55, 888 155, 572	143, 963 10, 284	72.03 6.2	199, 685	132, 501	62.3 5.6	850, 784 156, 905	515, 879 3, 404	2.1	
3, 117	10.3	41, 996	1, 196	2.7	51, 162	11,920 443 748	0.9	51, 395 30, 264	487 803	2.5	
699 262	2.5 5.1	27, 872 296	832	2.8	35, 899 1, 082		2.04	653			
2, 827	9.3	22, 040	1,351	5.7	23, 667	2, 957	11.1	29, 018	969	3. 2	
23,760	38.4	51,308	25, 739	33. 4	71, 197	52, 543	42.4	97, 783	39, 832	28.9	
312	2.6	15,010	76	0.5	17, 394	939	5.1	19, 048			
2,793	9.4	15, 696	6, 572	29. 5	14, 445	3, 394	19.02	29, 603	5, 275	18.9	
11,498 600	33.9 27.1	27, 403 6, 804	5, 745 2, 187	17.3 24.3	48,786	5, 469 1, 030	10.08	44, 318 5, 359	7, 598 64	14.6	
*********		1, 502	2, 187 357	19.2	4,355 2,223	145	19, 1 6, 1 13, 5	5, 359 2, 423	107	4. 2	
1.360	0.6	12, 484 39, 259	1, 216 4, 341	8.8	15,251 41,684	2, 380 4, 503	13.5	15,069 61,014	1,399	8.5	
1,360	4.3	2,175	4, 341	10.0	4 427	4, 503 540	10.8	1,214	4, 952	7.5	
		5, 201	208	3.8	13,726	2,319	14.4	5, 988	987	14.1	
		2,487			3,073	300	8.1	6,560	2, 281	25. 8	
94	3.5	605			129			496			
*********		F) 040			736	*******		214	605	73.8	
	*****	51, 349	F17	74.6	36, 832			47, 327 167	********		
	*****	114	511	14.0				101			
-	_	-	-	-	-	-	-				

# FOREIGN AND DOMESTIC COMMERCE.

# General statement exhibiting the tonnage of American and foreign vessels

١			1851.			1856.		
	Countries.	American.	Foreign,	Per cent, of foreign.	American.	Foreign.	Per cent. of foreign.	American.
	Russia Prussia Sweden, Norway, and Denmark	9, 817 262 2, 669	3, 266 704 25, 769	25. 0 72. 8 90. 6	7, 874 1, 091 9, 477	769 389 4, 278	8. 8 26. 2 31. 2	13, 683
1	Sweden, Norway, and Denmark. Hamburg, Bremen, and other German ports. Holland and Belgium. England Scotland. Ireland France on the Atlantic. Spain on the Atlantic. Portugal Gibraltar Spain on the Mediterranean. France on the Mediterranean. Italy, Sielly, and Malta.	15, 101	90,539 25,786 411,611 46,215 74,021 26,498 5,547 5,175 1,114 19,590 14,656 28,391	80.6 47.9 39.9 71.7 93.1 16.3 35.8 84.3 68.6 56.4 67.2 46.3	37, 293 56, 526 1, 006, 495 26, 370 3, 630 211, 353 17, 026 10, 879 5, 205 20, 710 29, 957 108, 055	121,701 23,983 350,137 54,170 11,163 24,743 3,530 7,434 4,922 26,128 7,062 34,807	76.5 29.7 25.8 67.2 68.7 10.4 17.1 40.5 48.6 55.8 19.1 24.3	4, 03 40, 90 844, 92 19, 80 1, 98 236, 42 16, 55 98 3, 31 16, 77 23, 48 92, 03
1	Austria Turkey, Greece, Egypt, and the Le-	814 7,757	6, 281 2, 109	88.5 21.3	4, 087 17, 768	2,782 4,809	40.5	9,77
	Europe generally		2,100			4,000		
	France on the Mediterranean. Italy, Sielly, and Malta. Austria. Turkey, Greece, Egypt, and the Levant. Europe generally. French African Possessions. British African Possessions. Other ports in Africa. Azores. Canary islands Madeira. Cape de Verd islands. British East Indies. Dutch East Indies.	1, 223 12, 675 1, 864 309 1, 068 111 29, 907 3, 329 27, 587	238 1, 035 678 746 137 2, 813 150 11, 327	16.3 7.5 26.6 70.7 11.3 8.6 4.3 29.1	5. 329 14, 157 4, 556 1, 180 2, 696 65, 619 9, 169 69, 194	576 284 1, 307	8. 4 3. 6 10. 6 32. 8 100. 0 32. 6 19. 8 3. 9 12. 6	5, 18 13, 95 20, 25 5, 06 2, 34 25 2, 88 106, 72 6, 62 77, 25
	Other Asiatic ports Other Asiatic ports Philippine islands Australia Other British colonies, including	9, 933 6, 381	2, 549 27, 168	20, 4 80, 9	545 24, 293 3, 025	2, 112 1, 103	8. 0 26. 7	1, 60 29, 14 8, 57
ľ	Islands of the Pacific and the north-							
			4, 255 514, 383	16. 4 33. 6	1000	1, 092 1, 217, 712	5.8 50.5	33, 50 2, 617, 27
-	west coast. Canada. Other British North American provinces, including Canada, until 1836. Cuba Porto Rico Hayti and San Domingo. Swedish West Indies Danish West Indies British West Indies and South	62, 458 355, 515 48, 336 39, 940 278	362, 218 53, 162 7, 874 7, 820	85, 2 13, 0 14, 0 16, 3	187, 754 516, 650 40, 301 46, 776 961	402, 441 56, 082 12, 040 6, 620	68. 2 9. 7 23. 0 12. 4	184, 06 670, 91 55, 70 40, 60
1		10, 386	5, 052	32.7	13, 451	2, 163	13.8	1, 41
1	American colonies	61, 134	44, 882	42.3	64, 819	38, 770	37.4	107, 9
1	colonies French West Indies and American colonies	20, 145	8, 426	29.4	12, 272	1, 997	14.0	20, 0
1	Spanish American colonies until 1824		2, 353	33. 5	9, 700	4, 645	32. 3	6, 30
1	Mexico	29, 407	12,701	30.1	40, 402	8, 387	17.2	49, 27
1	Central America	3, 055 8, 550	2,524	45,2 2,3	5, 173 85, 544	2,718 796	34.4	2 4
1	Central America New Granada and Venezuela	8,550 183,478	12,698	6.4	85, 544 152, 559	5, 925	37.4	2, 45 215, 21
1	New Granada and Venezueta Brazil Uruguay Buenos Ayres Chili Peru	63, 663	22, 428	26, 05	100 054	12, 688	11.2	115, 01
1	Uruguay	154	1,992	92.8	1, 801 18, 544 15, 266	255	12.4	7, 99 23, 96
1	Chili	13, 382 30, 068	11,005 23,396	45.1 43.7	18, 544	356	2.5	23, 96
1	Peru	20, 102	5, 751	22.2	1 50 948	3, 536 6, 620	18.8	17, 45 77, 3
1	Other South American ports	1,214	1,849	60.3	1,062			11,0
1	Other South American ports Whale fisheries Uncertain places	52, 424 102			43, 331	492	1.1	36, 0
1	Total				4, 385, 484	7.000	-	5, 921, 26

FOREIGN AND DOMESTIC COMMERCE.

# arriving from each foreign country every fifth year, &c.—Continued.

1860.			1861.			1862			1863.		
Foreign.	Per cent, of foreign.	American.	Foreign.	Per cent, of foreign.	American.	Foreign.	Per cent, of foreign.	American.	Foreign.	Per cent. of foreign.	
3, 141 310 3, 678	18. 6 100. 0 36. 8	8, 220 8, 460	3, 937 400 6, 273	32. 4 100. 0 42. 6	6, 848	2, 701 3, 294	28, 3	6,504	4, 778 7, 528	42.3 94.3	
170, 222 17, 305 507, 003 62, 485 28, 318 18, 785 3, 015 2, 669 2, 820 20, 451 19, 737 47, 429 3, 730	95. 9 29. 7 37. 5. 75. 9 93. 4 7. 3 15. 4 74. 4 54. 9 54. 9 45. 6 33. 8 60. 2	8, 298 41, 639 892, 685 31, 158 1, 136 178, 187 9, 602 2, 268 221 21, 537 14, 276 72, 514 3, 274	161,005 20,883 479,068 54,724 54,224 54,236 16,835 2,186 5,149 11,396 5,289 20,612 1,253	95. 1 33. 4 36. 8 63. 7 97. 9 8. 6 18. 4 69. 4 34. 6 27. 0 22. 1 27. 6	7, 361 54, 342 821, 447 41, 589 25, 987 227, 703 23, 026 3, 050 3, 831 18, 434	189, 604 36, 722 475, 029 27, 355 58, 506 30, 610 5, 508 8, 735 1, 640 8, 232 1, 627	96.2 40.3 36.6 39.7 69.2 11.8 19.3 74.1 30.0 30.8 6.4 17.5	9, 018 29, 816 720, 960 39, 139 25, 396 51, 402 14, 410 6, 971 3, 385 21, 310 15, 361 66, 017	179, 594 41, 228 628, 435 49, 204 79, 647 29, 091 10, 020 13, 171 3, 804 11, 556 17, 734 32, 926 3, 130	95.2 58.3 46.5 55.6 75.8 36.1 41.0 65.4 52.9 35.1 53.6 33.2 100.0	
5, 202	35, 4	10, 281	2, 158	17.3	6,715			5, 919	3, 069	34.1	
1, 474 4, 889 1, 960 1, 415 1, 039 677 1, 660 8, 203 980 4, 213 3, 774 1, 286 12, 692	22. 1 25. 9 8. 8 21. 8 30. 7 27. 6 36. 5 7. 4 12. 8 5. 1 70. 2 4. 2 59. 6	10, 965 19, 126 3, 800 1, 027 159 1, 239 68, 259 5, 447 70, 295 2, 425 33, 452 4, 078	1, 137 2, 256 504 985 976 1, 121 10, 322 2, 570 5, 655	9.3 10.5 11.7 48.9 86.0 47.7 13.1 32.0 7.4	288 10, 046 13, 784 3, 318 692 1, 647 27, 405 1, 216 41, 900 1, 751 13, 259 6, 112	836 1, 715 559 480 2, 874 430 19, 607 523 710 5, 206	7. 6 11. 00 14. 3 40. 9 9. 4 25. 1 31. 8 23. 0 5. 1 46. 0	553 10, 831 12, 591 1, 954 679 3, 243 1, 127 45, 854 2, 089 56, 382 1, 819 1, 919 25, 276 9, 000	563 3, 020 4, 246 1, 569 273 445 1, 435 3, 564 1, 194 12, 137	50. 4 21. 7 25. 2 44. 5 28. 6 12. 07 56. 0 7. 2 36. 3 17. 7	7
•											1
1,736 658,036	4.8 20.1	20, 031 1, 996, 892	1, 834 684, 879	8.4 25.5	11, 809 2, 487, 373	593 683, 411	4.8 21.5	9, 322 2, 307, 233	1, 052 743, 136	10.1 24.3	1
475, 051 91, 796 15, 173 7, 756 122 9, 113	72.7 12.03 21.4 16.03 8.0 37.9	52, 209	465, 141 53, 110 9, 899 5, 460 140 3, 105	70.3 7.9 15.9 11.8 8.3 22.9	246, 821 379, 517 42, 377 30, 305 1, 854 25, 039	397, 702 68, 533 21, 360 23, 029 1, 359 3, 715	61. 7. 15. 3 33. 5 43. 1 42. 3 12. 9	213, 251 388, 213 37, 294 30, 435 576 12, 641	420, 961 87, 466 17, 293 31, 524 527 11, 938	66, 3 18, 4 31, 7 50, 8 47, 7 48, 5	
59, 544	35. 5	93, 684	53, 835	36. 5	69, 201	72, 724	-51.2	79, 972	77, 048	49.7	1
7, 483	27.1	21, 297	12, 132	36.3	7, 905	7,812	49, 7	6, 692	11,640	63. 5	13
5, 415	46. 2	2, 966	4, 024	57.5	2, 680	2, 839	51.4	1,723	7, 426	81.1	1
12, 748 2, 145 879 5, 090 33, 444 417 3, 467 1, 316 2, 418	20.5 17.4 26.4 2.3 22.5 5.0 12.6 7.02 3.3	153, 656 348 34, 752	5, 509 684 414 2, 441 22, 173 1, 058 6, 331 5, 197	16.8 17.7 11.9 1.6 20.9 4.4 17.7 3.2	30, 284 1, 563 1, 735 154, 857 70, 915 13, 069 16, 177 15, 193 6, 685	8,074 2,871 1,703 9,396 31,425 677 4,366 1,269 2,857	20.7 64.7 49.5 5.7 30.7 4.9 21.2 7.7 30.0	42,883 1,308 12,078 166,742 46,323 4,569 18,835 15,738 5,031	19, 646 4, 458 2, 193 13, 857 30, 229 1, 009 3, 772 3, 078 1, 654	31. 4 77. 3 15. 3 7. 6 39. 5 18. 09 16. 6 16. 3 24. 7	the transmission of the transmission of the
		957	*********	*****	191			********			1
		e a system	2, 217, 554	1.00		2, 245, 278	127.1	4, 614, 698	2000	36. 4	

Statement exhibiting severally the tonnage of vessels from all foreign countries, exclusive of Canada and the other British North American possessions, from Canada and the other British North American possessions, and from all foreign countries, every fifth year, from 1821 to 1860, and annually from 1861 to 1863, with the per-centage of the total foreign tonnage entered at each period.

Years.	Tonnage entered, exclusive of Canada and other British North American provinces.	Percentage of foreign.	Tonnage entered from Canada and other British North American provinces.	Percentage of foreign.	Tonnage entered, inclusive of Canada and other British North American provinces.	Percentage of foreign.
1821	734,950	11.3	111,674	0,3	846, 624	9.6
1826	964, 270	10,05	83, 590	10.4	1,047,860	10.08
1831	1,028,660	19.2	176, 240	47.2	1,204,900	23, 4
1836.,	1, 279, 424	23.6	656, 173	57.5	1,935,597	35. 1
1841	1,566,987	21.9	801,366	48.9	2, 368, 353	31.1
1846	1,744,270	25.4	1, 366, 583	37.7	3, 110, 853	30,8
1851	3,041,106	31.6	1,952,334	44.9	4, 993, 440	38, 8
1856	3, 872, 630	22:3	2, 999, 623	54.0	6, 872, 253	36, 2
1860	4, 340, 771	28.1	3, 934, 425	28.8	8, 275, 196	28.4
1861	3, 897, 850	27.4	3, 343, 621	34.3	7, 241, 471	30.6
1862	3, 547, 646	32.8	3, 815, 307	28.3	7, 362, 953	30.5
1863	3, 570, 495	41.3	3, 684, 581	31.6	7, 255, 076	36.4

Statement exhibiting the total tonnage of vessels arriving from each country in Europe every fifth year from 1821 to 1860, and annu-ally from 1861 to 1863, with the foreign percentage of the total tonnage entered at each period; and showing, also, the total ton-

	Russi	4	Prussia		Sweden, Norway, and Denmark.	rwsy, ark	Hamburg, Bremen, and other German ports.		Holland and Bel- giam.		England.		Bootland	널	Ireland.	4	France on t Atlantic.	2 3 5
· Years,	Total tonnage.	Percentage of foreign.	Total tonnage.	Percentage of foreign.	Total tonnage.	Persentage of foreign.	Total tonnage.		Total tonnage. Percentage of foreign.		Total tonnage.	Percentage of foreign.	Total tonnage.	Percentage of foreign.	Total tonnage.	Percentage of foreign.	Total tomange.	Percentage of foreign.
1821.	13, 827		726	100.0	13,381	80 80	18, 704		27, 254 5.	H	151, 077	8 8	11, 969	61.3	12, 497	24.1	107 as	49.6
1836.	17, 349		203	41.3	16, 755	11.8	19, 396	ક ક		ਕ :	211.963	18.5	12, 118	51.6	18, 307	8.2	38,965	12.7
1831	9, 508	6.07	200	İ	14,345	90.9	98, 109 43.	<u></u>	24, 425	-	307, 669	27.4	16, 682	639	11,408	61.5	49, 515	17.5
. 1836.	15, 551	10.3	615	4.5	19, 312	55.2	46, 475 78.	<u>ଞ୍</u>	336		343, 721	31.4	24, 647	81.4	15, 724	87.7	87,286	13.8
1841	19,044	3.5	357	i	19, 295	61.6	51, 074 69.	-	41, 045 9.	· •	138, 887	86	31, 167	74.1	18,663	95.8	194, 060	11.7
1846	11,464	27	1,794	76.6	13,721	74.4	86, 338		i, 169 25.	8	572, 510	34.6	30, 600	6 5	35, 219	80.2	114, 206	9.4
1851	13,083	25.0	996	72.8	28. 438	90.0	112, 273 80.	9	53, 781 47.	6	1, 031, 203	6.08	64, 434	71.7	79, 509	8.1	162, 194	16.3
1856.	8, 643	8.8	1,480	86.2	13, 755	31.2	158, 994 76.	.5	, 509 29.	7 1,356,	g	8.8	80, 540	67.3	14, 793	88.7	236, 096	10.4
1960.	16, 824	18.6	310	100.0	9, 993	36.8	174, 255 95.	8,		-	1, 351, 925	37.5	82, 294	6.5	30, 307	8.4	255, 211	7.3
1861	12, 157	85.4 4	\$	100.0	14, 733	42.6	169, 303		, see _ 33	-	1, 301, 753	36.8	85,882	8,7	55, 364	97.9	195, 022	89
1962	9, 549	28.3			5,210	8	196, 965 96.	2 91,	, 064 40.	es	1, 296, 476	36.6	68, 944	28.7	84, 493	80.8	258, 313	11.8
1963	11,282	42.3			7, 998	94.3	188, 612 95.	05	71,044 58.	က	1, 349, 385	46.5	88, 343	35.6	105, 043	75.8	80, 433	36.1

Statement exhibiting the total tonnage of vessels arriving from each country in Europe every fifth year from 1821 to 1860, &c.—Continued.

	Spain on tl Atlantic.	the C.	Portugal		Gibraltar and Spain on the Moditerrancan		France on the Mediterranean	ο.	Italy, Sicily Malta	r, Sicily, and Malta.	Austria	<u>d</u>	Turkey, Greece, Egypt, and the Levant.	rece,	Total tonnage.	nnage.	
Your,	.egannot latoT	Percentage of foreign.	Total tonnage.	Percentage of foreign.	. Total tonnage.	Percentage of foreign.	.egannot latoT	Percentage of foreign.	Legal tonnage.	Percentage of foreign.	Total tonnage.	Percentage of foreign.	Total tonnage.	Percentage of foreign.	American.	Foreign.	Percentage of foreign.
1821	6, 585		20, 683	4.9	16, 976	بر بر	4, 538	18.3	6, 573		2, 018		2,114	80	260, 549	71,087	21.4
1826	5,483		21, 387	1.6	15, 464	i	9, 426		9, 095	į	2, 515		3, 579		383, 276	64, 902	14.4
1831	6,760	i	6, 494	8	13, 182	i	14, 267	3.4	12, 922	1.2	11, 920	•	10, 107	20.0	408, 772	131, 241	2.4
1836.	9, 276	18.4	10, 254	27.5	20, 376	15.2	21, 827	44.2	25, 630	17.2	10, 364	37.9	7,245	83.8	441,487	240, 143	35.2
1841	13, 103	5.4	15, 585	15.9	19, 592	14.4	16, 532	86.02	32, 306	18.06	7, 220	27.1	4,872	14.4	505, 504	251, 388	89.8
1846.	8, 495	4.5	7, 165	88	17,887	29.3	13,062	8	32, 596	20.3	5, 611	10.5	8,875	16.6	644, 171	370, 740	36.5
1851	15, 487	35.8	6, 136	94.3	36, 314	57.0	21, 802	67.2	61,247	46.3	7,095	88	9,866	21.3	916, 556	787, 273	46.2
1856.	20, 556	17.1	18,313	40.5	56, 965	34.5	37, 019	19.1	142,803	24.3	6, 869	40.5	22, 577	21.3	1, 573, 796	682, 807	30.2
1860.	19, 571	15.4	3,854	74.4	43, 363	88	43, 225	45.6	139, 467	88.8	6, 190	60.2	14, 979	35.4	1, 333, 477	916, 500	40,7
1861	11,848	18.4	7, 417	89.	34,445	36.8	19, 565	27.03	93, 136	8	4, 527	27.6	12, 430	17.3	1, 233, 816	846, 687	40.7
1862	28, 534	19.3	11,785	74.1	32, 137	30.7	25, 199	6.4	97, 507	17.5	361		6,715		1, 346, 622	966, 630	39.1
1963	94, 430	41.0	20, 142	8	40,055	8	33,005	88	98, 943	8.8	3, 130	100.0	88.68	34.1	1, 016, 078	1, 114, 915	<b>5</b> 6.3
	,					•		•	-						-		

Statement exhibiting the tennage of American and foreign vessels arriving from the West Indies every fifth year from 1821 to 1860, and annually from 1861 to 1863, with the proportion of the foreign to the total tennage entered at each period.

1821	313, 819	0.405	
831. 836. 841. 846. 851. 856. 866.	351, 868 294, 579 329, 790 414, 461 407, 669 540, 398 704, 930 917, 828 841, 623 558, 878	8, 495 20, 026 53, 409 46, 050 72, 944 50, 770 129, 569 122, 317 196, 402 141, 705 201, 371	2. 6 5. 3 15. 3 12. 2 14. 9 11. 0 19. 3 14. 8 17. 6 14. 4 26. 5

Statement exhibiting the tonnage of American and foreign vessels arriving from Mexico and South America every fifth year from 1821 to 1860, and annually from 1861 to 1863, with the proportion of the foreign to the total tonnage entered at each period.

Years.	American.	Foreign.	Percentage of foreign.
1891	39, 879	1, 299	3. 2
	84, 043	11, 516	12. 0
	82, 618	13, 608	14. 1
	97, 920	14, 054	13. 4
	134, 389	16, 686	11. 0
	142, 655	17, 993	11. 2
	353, 073	94, 553	20. 7
	466, 353	41, 281	8. 1
	518, 817	61, 924	10. 6
	478, 865	43, 807	8. 3
	310, 478	62, 638	16. 6
	313, 507	79, 896	20. 3

Statement exhibiting the tonnage of American and foreign vessels arriving from Asia, Africa, and miscellaneous countries every fifth year from 1821 to 1860, and annually from 1861 to 1863, with the proportion of the foreign to the total tonnage entered at each period.

Years.	American.	Foreign.	Percentage of foreign.
1821	39, 582 48, 135 46, 036 107, 537 78, 790 105, 915 168, 589 260, 935 349, 825 276, 012 167, 513 207, 063	240 504 397 2, 444 2, 815 4, 357 51, 096 20, 211 45, 998 33, 335 33, 526 36, 608	0.8 1.0 0.8 2.2 3.4 3.9 23.2 7.2 11.6 11.3

Statement exhibiting the total imports and exports of the United States in the respective years given, and the proportions of the total trade with the several designated geographical divisions of the world.

	1						Percer	itage.				
Years.	• Imports.	Exports.	Euro	ope.	West 1	Indies.	Canad	a,&c.	Mexic So. A ica	mer-	Asia, A	iscel-
			Imports.	Exports.	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.
1821	\$62,585,724 84,974,477 103,191,124 189,980,031 127,946,177 121,691,797 216,224,532 314,639,942 362,163,941 334,350,453 205,819,823 205,819,823	326,964,908 400,122,296	64 55 68 71 65 66 69 63 60 60 56	53 55 62 75 72 69 78 75 78 68 69 68	23 18 15 11 14 12 11 10 12 12 14 12	18 18 12 11 11 12 7 5 6 10 10 9	0.8 0.8 1.0 1.3 1.5 1.5 7 6 7	335257696999	3 13 12 9 13 11 11 12 12 12 12 12	4 18 14 9 9 6 7 5 7	9.2 13.2 4.0 7.7 6.5 9.5 6.0 9.8	222 6 7 3 3 3 4 5 5

# European trade.

Years,	Gold and	silver.	Trade, exclusi		Tot	al.
	Imports.	Exports.	Imports.	Exports.	Imports,	Exports.
1821	\$4,380,396	\$1,978,180	\$34, 986, 984	\$32, 409, 408	\$39, 367, 380	\$34, 387, 586
1826	713,036 321,224	912,748 5, 974, 751	46, 023, 725 68, 964, 087	42, 326, 403 44, 450, 445	46, 736, 761 69, 285, 311	43, 239, 15, 50, 425, 19
1836	7, 179, 414	207, 775	127, 094, 982	96, 362, 578	134, 274, 396	96, 570, 35
1841	934, 771	6, 974, 984	82, 589, 489	80, 066, 439	83, 524, 260	87, 041, 42
1846	614,256 1,657,976	2, 263, 407 25, 271, 602	80, 092, 338 147, 906, 150	76, 170, 569 145, 615, 280	80, 706, 594 149, 564, 126	78, 433, 976 170, 866, 885
1856	638,582	42, 835, 627	199, 316, 132	204, 833, 941	199, 954, 714	247, 669, 56
1860	173, 172	60, 849, 153	217, 629, 483	249, 821, 763	217, 802, 655	310, 670, 910
1861	37, 403, 715	23, 528, 342	167, 031, 140	147, 271, 941	204, 434, 855	170, 800, 28
1862	12, 505, 044	30, 684, 483	105, 054, 686	127, 351, 991	117, 559, 730	158, 036, 47
1863	254,931	54, 231, 231	148, 956, 705	173, 769, 807	149, 211, 636	228, 001, 03

# West India trade.

Years.	Gold and	silver.	Trade, exclusi		Tot	al,
	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.
1821	\$3, 253, 083	\$318,203	\$11,681,701	\$11,818,767	\$14, 934, 784	\$12, 136, 970
1826	1, 613, 518	426,933	14, 298, 712	13, 730, 777	15, 912, 230	14, 157, 710
1831	1, 268, 364	410,571	14, 464, 359	11, 236, 205	15, 732, 723	11, 646, 776
1836	538, 457	1, 020, 487	21, 344, 251	12, 240, 295	21, 882, 708	13, 260, 789
1841	703, 335	417, 173	17, 882, 221	12,500,428	18, 585, 556	12, 917, 601
1846	1, 504, 523	546, 470	12, 813, 080	14,056,622	14, 317, 603	14, 603, 092
1851	606, 095	2, 312, 385	22, 701, 029	13, 163, 551	23, 307, 124	15, 475, 936
1856	167, 577	575, 107	33, 176, 814	16, 757, 615	33, 344, 391	17, 332, 722
1860	1, 798, 563	1, 058, 321	41,601,134	23, 526, 063	43, 399, 697	24, 584, 384
1861	3, 376, 781	3, 411, 999	38, 216, 569	20, 841, 701	41, 593, 350	24, 253, 700
1862	166, 573	2, 028, 519	28, 395, 091	21,923,074	28, 561, 664	23, 951, 593
1863	638, 227	2, 081, 744	28, 424, 998	29, 526, 258	29, 063, 225	31, 608, 602

Trade of the several West India islands in the years 1860 and 1863, showing the change of the balance of trade in the respective years.

1860.

	Imports.	Exports.		Imports.	Exports.
Swedish West Indies Danish West Indies British West Indies French West Indies Hayti	\$18, 793 200, 416 1, 934, 459 18, 353 2, 002, 723	\$97, 218 1, 263, 424 5, 368, 479 544, 231 2, 673, 682	Cuba Porto Rico Dutch West Indies San Domingo	\$34, 032, 276 4, 512, 935 396, 644 283, 098	\$12, 382, 869 1, 781, 750 303, 431 169, 300
Total	4, 174, 744	9, 947, 034	Total	39, 224, 953	14, 637, 350

Excess of exports, \$5,772,290.

Percentage of imports to total, 29 per cent.

Percentage of total imports to total, 73 per cent.

Percentage of total imports to total trade, 64 per cent.

#### 1863.

	Imports.	Exports.		Imports.	Exports.
Danish West Indies British West Indies French West Indies Hayti San Domingo	\$281, 722 2, 078, 475 22, 305 1, 878, 337 300, 281	\$1, 214, 612 7, 555, 321 901, 244 3, 988, 731 480, 340	Swedish West Indies Dutch West Indies Cuba Porto Rico		\$7, 575 352, 598 14, 811, 289 2, 217, 723
Total	4, 561, 120	14, 140, 258	Total	24, 802, 386	17, 389, 185

Excess of exports, \$9,579,138.

Excess of imports, \$7,413.201. Excess of exports, \$9,579,138. a
Percentage of imports to total, 24 per cent.
Percentage of total imports to total, 58 per cent.

#### Canadian and other British provincial trade.

Year.	Gold and silver.		Trade, exclusive silve		Trade, inclusive of gold and silver.		
	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.	
1821	\$89, 415 224, 994	\$462, 250	\$406,027 428,956	<b>2</b> 2,010,004	\$495,442	\$2,010,004	
1831	277, 197	982, 000	587,712	2, 126, 545 3, 079, 838	653,950 864,909	2, 588, 795 4, 061, 838	
1836	546, 474	64, 438	1,881,097	2,586,828	2, 427, 571	2, 651, 266	
1841	475, 891	198, 100	1, 492, 296	6, 458, 463	1, 968, 187	6, 656, 563	
1846	623, 043	251, 900	1, 314, 674	7, 154, 533	1, 937, 717	7, 406, 433	
1851	44, 677	30	6, 648, 445	12,014,893	6, 693, 122	12, 014, 923	
1856	33, 807	4,000	21, 276, 614	29, 025, 349	21, 310, 421	29, 029, 349	
1860	278, 585	10, 400	23, 572, 796	22, 695, 928	23, 851, 381	22,706,328	
1861	338, 444	69, 100	22, 724, 489	22, 676, 513	23, 062, 933	22, 745, 613	
1863	788, 970 6, 536, 478	506, 045 3, 661, 216	18, 511, 025 17, 484, 786	20, 573, 070 27, 619, 814	19, 299, 995 24, 021, 264	21, 079, 115 31, 281, 030	

NOTES .- The reciprocity treaty between the United States and Great Britain, concluded 5th of June, 1854,

NOTES.—The reciprocity treaty between the United States and Great Britain, concluded 5th of June, 1854, went into operation in the trade with Canada, October 18, 1854; with New Brunswick, November 11, 1854; with Prince Edward's island, November 17, 1854; with New Brunswick, November 11, 1854; with Prince Edward's island, November 17, 1854; with New Brunswick, November 11, 1854; of fish from all the provinces, on the 11th of September, 1854.

The aggregate exports (inclusive of specie and foreign merchandise) to Canada and the other British North American possessions for the three years 1852—53—54, amounting to \$48,216,518, exceeded the aggregate imports 113.4 per cent. The aggregate exports of the five years, from the 30th of June, 1854, (which period covered the first four and a half years of the operation of the reciprocity treaty.) amounted to \$43,2903,752, exceeding the imports of the same period 41.3 per cent. The aggregate imports of the two years, 1860 and 1861, immediately preceding the rebellion, amounted to \$46,914,314, exceeding the exports 2 per cent. In the year 1862, the size full fiscal year of the rebellion, the exports (\$31,281,030) exceeded the imports 9.2 per cent.

In the trade with the British North American possessions other than Canada, in the year 1851, the exports amounts in 1860; the exports and imports to \$1,736,651. This commerce had gradually grown to double these amounts in 1860; the exports and imports holding about the same ratio, say the former about double the value of the latter. In the year 1863 the exports were \$1,998,505, the imports \$5,207,424. The Canada trade of 1851 amounted to \$1,265,611, of which the exports were \$1.5 per cent. In 1860 the total trade was \$23,944,787, of which the exports were \$1.65 the cent; in 1863 the total trade was \$23,944,787, of which the exports were \$4.5 per cent. In 1856, the year of the greatest trade with Canada previous to 1863, the total exports were \$4.5 per cent. In 1850, the year of the greatest trade with Canada previous to 1863, the

# Mexican and South American trade.

Gold and silver.		silver.	Trade, exclusive		Trade, inclusive of gold and silver.		
	Imports.	Exports.	Imports,	Exports.	Imports.	Exports,	
1821	\$229,552	\$211, 892	\$1,705,766	\$2,414,328	\$1,935,318	\$2,626,220	
	542,716	373, 553	9,892,453	12,581,757	10,435,169	12,955,310	
1831	5, 307, 604	362, 283	5,949,664	10, 996, 404	11, 257, 268	11, 358, 687	
1836	5, 019, 922	1, 104, 223	12,063,237	10, 696, 015	17, 083, 159	11, 800, 238	
1841	2, 738, 863	481, 844	13,668,858	9, 561, 122	16, 407, 721	10, 042, 966	
1846	973, 328	443, 359	12,860,702	9, 020, 083	13, 834, 030	9, 463, 442	
1851	1, 692, 306	1, 466, 370	21,431,390	12, 499, 811	23, 123, 696	13, 966, 181	
1856	3, 160, 343	1, 224, 580	32,662,769	18, 974, 559	35, 823, 112	20, 199, 139	
1860	6, 154, 434	1, 077, 030	37,452,523	21, 513, 294	43, 606, 957	22,500, 324	
1861	4, 744, 229	550, 857	32,764,003	16, 349, 768	37, 508, 232	16,900, 625	
1862	2, 641, 932	288, 153	22,274,904	15, 205, 445	24, 916, 836	15,493,598	
1863	1, 997, 606	308, 865	25, 448, 385	25, 888, 885	27, 445, 991	26, 197, 750	

# Asiatic, African, and miscellaneous trade.

Gold :		silver.	Trade, exclusive silve		Trade, inclusive of gold and silver.		
- 5 P	Imports.	Exports.	Imports.	Exports.	Imports,	Exports.	
1821	\$112,444	\$7,969,689	\$5,740,356	\$5,843,911	\$5, 852, 800	\$13,813,600	
1826	3, 786, 702	2, 529, 049	7, 449, 665	2, 125, 307	11, 236, 367	4,654, 356	
1831	131, 556	1, 285, 326	5, 919, 357	2,532,760	3, 818, 086	6,050,913	
1836	116, 614	1,927,413	14, 195, 587	2,452,988	14, 312, 201	4, 380, 40	
1841	135, 873	1,962,231	7, 324, 580	2,407,632	7, 460, 453	4, 369, 863	
1846	62, 582	400, 132	10, 833, 271	3, 181, 441	10,895,853	3, 581, 57	
1851	1, 452, 538	422, 365	12, 084, 326	5, 621, 724	13, 536, 864	6,044,08	
1856	207, 323	1, 106, 171	23, 999, 981	11,627,959	24, 207, 304	12, 734, 130	
1860	145, 381	3, 551, 335	33, 357, 870	16,019,009	33, 503, 251	19, 570, 344	
1861	476, 442	2, 231, 782	27, 274, 641	12,412,910	27, 751, 083	14, 644, 69	
1862	312, 533	3, 379, 756	15, 169, 065	7,849,744	15, 481, 598	11, 229, 500	
1863	128, 406	3, 873, 544	22, 317, 065	10,848,095	22, 445, 471	14, 721, 639	

# SHIPPING OF THE UNITED STATES.

# The number, class, and tonnage of vessels built in the United States, 1822 to 1863.\*

	Years.		(	Class of ves	els.		l number vessels,	mages
		Ships.	Brigs.	Schooners.	Sloops and canal boats.	Steamers.	Total number of vessels.	Cotal tonnage:
1822		64	131	260	168		623	75, 347
1823		. 55	127	260	165	15	622	75, 008
		56	156	377	166	26	· 781	90, 939
		56	197	538	168	35	994	119, 997
		71	187	482	227	45	1,012	126, 438
		55 73	153	464	241	38	934	104, 342
		73	106	474	197	33	885	98, 375
		44	58	395	132	43	672	72, 226
		25	56	403	<b>1</b> 16	37	637	58, 084
		72	95	416	94	34	711	85, 9 <b>63</b>
1832		132	143	568	122	100	1,065	144, 539
		144	169	625	185	65	1, 188	161, <b>626</b>
		98	94	497	180	88	957	118, 330
		25	50	301	100	_30	507	46, 236
		93 67	65	444	164	124	890	113, 628
		67	72	507	168	135	949	122, 987
		66	79	510	153	90	898	113, 135
		83	<b>a</b> 89	439	122	125	858	120, 988
		97	109	378	224	63	871	118, 309
		114	101	311	157	78	761	118, 894
1849. 🏅		116	91	273	404	137	1,021	129,084

## The number, class, and tonnage of vessels, &c.—Continued.

Years,			Class of vess	sels.		l number vessels.	Total tonnage.
	Ships.	Brigs.	Schooners.	Sloops and canal boats.	Steamers.	Total number of vessels,	
1843	58	34	138	173	79	482	63, 618
1844	73	47	204	279	163	766	103, 527
1845	124	87	322	342	163	1,038	146, 018
1846	100	164	576	355	225	1,420	188, 204
1847	151	168	689	392	198	1,508	243, 733
1848	254	174	701	547	175	1,851	318, 076
1849	198	148	623	370	208	1,547	256, 577
1850	247	117	547	290	159	1,360	272, 218
1851	211	65	522	326	233	1,367	298, 200
1852	255	79	584	267	259	1,444	351, 493
1853	269	95	681	394	271	1,710	425, 57
1854	334	112	661	386	281	1,774	535, 616
1855	381	126	605	609	253	2, 034	583, 450
1856	306	103	594	479	221	1,703	469, 39
1857	251	58	504	258	263	1,334	378, 803
1858	122	46	431	400	226	1, 225	242, 287
1859	89	28	297	284	172	870	156, 601
1860	110	36	372	289	264	1,071	212, 893
1861	110	. 38	360	371	264	1,143	233, 149
1869	60	17	207	397	183	864	175, 076
1963	97	34	212	1,113	367	1,823	310, 884

<sup>\*</sup>For calendar years 1822 to 1833, fiscal years ending September 30, from 1834 to 1843, and ending June 30 subsequently.

### SHIPPING OF THE UNITED STATES:

A comparative view of the registered and enrolled tonnage of the United States, showing the registered tonnage employed in the whale fishery, the proportion of the enrolled and licensed tonnage employed in the coasting trade and fisheries, and the tonnage employed in steam navigation, from 1815 to 1863 inclusive.

Years.	Registered tennage.	Enrolled tonnage.	Total tonnage.	Registered tonnage in the whale fish- ery.	Tonnage employed in steam naviga- tion.	Enrolled tonnage in coasting trade and fisheries.
			To	ons.		
1815	854, 294 800, 760	513, 833 571, 458	1, 368, 127 1, 372, 218			462, 807 519, 026
1817	809, 725	590, 186	1, 399, 911	4,871	**********	535, 798
318	606, 089	619, 095	1, 225, 184	16, 134		562, 306
819	612, 930	647, 821	1, 260, 751	31, 700		589, 287
820	619, 047	661, 119	1, 280, 166	35, 391		600, 976
821	619, 896	679, 062	1, 298, 958	26, 070		612, 711
822	628, 150	696, 549	1, 324, 699	45, 499		634, 618
823	639, 921	699, 645	1, 336, 566	39, 918	28, 879	634, 615
824	669, 973	729, 190	1, 389, 163	33, 166	21, 609	657, 825
825	700, 787	722, 323	1, 423, 110	35, 379	23, 061	657, 899
826	737, 978	796, 212	1, 534, 190	41, 757	34, 058	730, 408
827	747, 170	873, 437	1, 620, 607	45, 623	40, 197	807, 313
828	812, 619	928, 772	1, 741, 391	54, 621	39, 418	834, 050
1829	650, 142	610, 655	1, 260, 797	57, 284	54, 036	610, 654
1830	576, 675	615, 311	1, 191, 776	38, 911	64, 471	615, 299
1831	620, 452	647, 394	1, 267, 846	82, 315	34, 435	649, 303
1839	686, 989	752, 461	1, 439, 450	72, 868	90, 813	751, 454
1833	750, 026	856, 123	1, 606, 149	101, 158	101, 849	856, 12
1834	857, 438	901, 469	1, 758, 907	108, 060	122, 815	899, 468
1835	885, 822	939, 118	1, 824, 940	97, 640	122, 815	929, 118
		984, 321		144, 680		
100m	897, 774		1,882,101	127, 242	145, 556	1,001,32
	810, 447	1, 086, 238 1, 173, 047	1, 896, 685	119, 629	154, 764 193, 413	1, 086, 238
tone	892, 592		1, 995, 639			1, 173, 047
10/0	834, 244	1, 262, 234	2, 096, 478	131, 845	204, 938	1, 262, 234
	899, 765	1, 280, 999	2, 180, 764	136, 926	201, 339	1, 280, 999
Dan	845, 803	1, 184, 941	2, 130, 744	157, 405	175,088	1,184,94
	975, 359	1, 117, 031	2, 092, 390	151,621	229,661	I,III

A comparative	nier of th	e registered o	and enrolled	tonnage. 8	c.—Continued.
L comparation	uca of the	t /tg/ac/tu u	na chiouca	communat, u	v.—Commucu,

Years.	Registered tonnage.	Enrolled tonnage.	Total tonnage.	Registered tonnage in the whale fish- ery.	Tonnageemployed in steam naviga- tion.	Enrolled tonnage in coasting trade and fisheries,	
	Tons.						
1843	1,009,315	1,149,297	2, 158, 602	152, 374	286, 867	1, 149, 208	
1844	1, 068, 765	1,211,330	2, 280, 095	168, 298	273, 179	1, 211, 331	
1845	1, 095, 173	1,321,829	2, 417, 002	190, 625	326, 018	1, 282, 344	
1846	1, 130, 286	1,431,798	2, 562, 084	189, 980	347, 893	1, 399, 289	
1847	1, 241, 313	1,597,732	2, 839, 045	193, 858	404, 841	1, 554, 252	
1848	1, 360, 887	1,793,155	3, 154, 042	192, 180	427, 891	1, 747, 631	
1849	1, 438, 942	1,895,073	3, 334, 015	180, 186	462, 304	1, 847, 234	
1850	1, 585, 711	1, 949, 743	3, 535, 454	146, 016	525, 946	1, 899, 554	
1851	1,726,307	2, 046, 132	3, 772, 439	181, 644	533, 607	1, 983, 332	
1852	1, 899, 448	2, 238, 992	4, 138, 440	193, 798	643, 240	2, 183, 227	
1853	2, 103, 674	2, 303, 336	4, 407, 010	193, 202	514, 097	2, 303, 334	
1854	2, 333, 819	2, 469, 083	4,802,902.	181, 901	076, 607	2, 411, 135	
1855	2, 535, 136	2, 676, 864	5, 212, 001	186, 773	770, 285	2, 515, 720	
1856	2, 491, 402	2, 380, 249	4,871,652	189, 213	673, 077	2, 337, 885	
1857	2, 463, 967	2, 476, 875	4,940,843	195, 771	705, 784	2, 433, 370	
1858	2, 499, 742	2, 555, 066	5,049,808	198, 593	729, 390	2, 502, 096	
1859	2, 507, 402	2, 637, 635	5, 145, 037	185, 728	768, 436	2, 628, 576	
1860	2, 546, 237	2, 807, 631	5, 353, 868	160, 941	867, 937	2, 807, 631	
1861	2, 642, 628	2, 897, 185	5, 539, 812	145, 734	877, 203	2,839, 398	
1862	2, 291, 251	2, 820, 913	5, 112, 164	117, 713	710, 462	2, 772, 005	
1863	2, 026, 114	3, 125, 941	5, 155, 055	99, 225	575, 518	3, 128, 939	

#### STATISTICS OF GENERAL TRADE WITH GREAT BRITAIN.

The great extent to which the course of foreign commerce has been diverted in recent years from direct lines to and from the countries of production and consumption gives a constantly increasing degree of importance to the statistics of trade with the countries in whose hands the carrying trade is being absorbed. The first and chief of these intervening countries is England. The statements annually published by that government are very full and comprehensive, and may be taken as the best available illustration of the commerce of the world. There are few articles the produce of any country which are not now largely carried through British ports, and whose quantities, values, and destination do not appear in the British statistics.

In the year 1862 the total value of British exports to the United States was £19,173,907—\$92,801,710, of which more than one-fourth was articles wholly of "foreign and colonial produce," their value being £4,846,037, or \$23,454,819. The manufactures designated as the produce of the United Kingdom were also made up in great degree of foreign staples, imported crude from the countries of their origin. The comparison of British exports to the United States for several years, distinguishing those of foreign origin, strikingly illustrates the progress of this carrying trade.

Exports from Great Britain to the United States.

	1857.	1858.	1859.	1860.	1861.	1862.
Of the produce and manufac- ture of the United Kingdom. Of foreign and colonial produce		£14,491,448 1,302,253		£21,667,065 1,240,616	£9,064,504 1,961,179	

In a	val <b>ues</b>	of .	the	United	States.
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	1857.	1858.	1859.	1860.	1861.	1862.
of the produce and manufac- ture of the United Kingdom of foreign and colonial produce	\$91,891,945 5,280,227	\$70.138,608 6,302,904	\$109,158,480 9,024,117	\$104,868,595 6,004,581	\$43.872,199 9,492,106	\$69,346,891 23,454,819
Totals	97,172,172	76,441,412	118,182,597	110,873,176	83,364,305	92,801,710

The increasing proportion of foreign articles to the total export in the last two years corresponds with the changed direction of commerce noted in the shipping accounts. For 1863 the value of foreign and colonial produce exported cannot be obtained, but the value of the produce of the United Kingdom sent to the United States is nearly the same as in 1862—£15,351,626, or \$74,301,869.

The crude staples of British manufactures are now in great proportion of foreign origin. Wool from South America, South Africa, Australia, and other colonies, and also from various continental states of Europe, is imported in immense quantities. Flax, undressed, from Russia, enters equally with the flax of Ireland into linen manufactures. The quantities of flax and hemp imported into England from Russia for six years amount to the following:

V		FLAX.	немр.	
Years.	Tons.	Value.	Tons.	Value.
1857 1858 1869 1860 1861	63,745 46,544 53,723 52,482 47,628 61,728	\$10, 695, 494 10, 070, 564 12, 870, 054 12, 485, 501 10, 913, 769 16, 367, 147	29, 035 30, 281 35, 460 29, 472 23, 043 30, 450	\$4, 633, 574 4, 264, 263 5, 075, 311 4, 353, 018 3, 444, 245 5, 394, 412

These are but single examples among many, showing the vast quantities of raw materials imported into England for manufacture, the final products of which constitute the exports designated as the "Produce and Manufactures of the United Kingdom." It is, therefore, but reasonable to estimate that a large that of those values are in a certain sense a portion of the indirect commerce between the real countries of production and those of consumption.

The carriage of foreign produce not manufactured in this manner is tending towards concentration in a few hands with great rapidity, and England far exceeds the German states and all others combined in the volume of this business. Taking tropical articles, or staples of almost universal consumption, and particularly those produced by distant countries, such as were for twenty or thirty years from the commencement of the great European wars the especial commerce of vessels of the United States, the results become very decided and conspicuous. The following table compares the quantities of such articles re-exported by England for five years to 1863:

Exports from England of certain articles of foreign production.

Articles.	1859.	1860.	1861.	1862.	1863.
Cocoa	2, 819, 248	2, 421, 320	4, 508, 297	1, 450, 814	6, 156, 100
Coffee		45, 661, 220	46, 800, 365	56, 899, 830	71, 385, 233
Cottondo		250, 428, 640	298, 287, 920	214, 714, 640	241, 750, 992
Cochinealdo		1, 878, 800	1, 691, 088	2, 037, 616	2, 288, 560
Indigo		6, 648, 992	7, 552, 720	5, 914, 496	6, 122, 256
Lac dyedo		455, 392	392, 896	Not given.	Not giver.
Logwoodtons		2, 189	3, 847	do	do
Terra japonica		699	1,578		do
Cutchdo	765	1,048	973	do	
Currants		97, 365	63, 991	102, 919	97, 093
Raisinsdo	76, 377	91, 596	41, 848	52, 851	
Guanotons		20, 459	12, 403		38,988
Hempcwts		57, 481	68, 958	16, 224	7,076
				73, 841	104, 018
Jute, and the likedo	do	42,511	89, 459	116, 638	168, 388
Hides, drydo		141, 169	198, 598	220, 714	239, 744
wetdo		110, 402	88, 266	65, 671	79, 864
Oil, palmdo	156, 475	184, 211	175,070	231, 948	202, 169
cocoa-nutdo		141, 459	218, 654	165, 778	197, 309
olivedo	30, 680	28, 120	26, 880	20, 360	18, 360
petroleum			20	63, 860	163, 480
Metals: copperdo	47, 036	73, 516	78, 459	173, 571	125, 641
tindo	7,908	10, 163	19, 173	21, 668	22, 701
Quicksilverlbs	2, 335, 936	2, 364, 566	1, 317, 039	1,027,393	1,840,658
Ricecwts	1, 155, 075	1, 173, 090	1, 722, 188	1, 272, 049	1, 605, 701
Saltpetre	100, 547	28, 825	18, 644	78, 688	26, 312
Seeds: flax and linseedbush	863, 616	990, 592	778, 376	735, 224	723, 976
rape seeddo	1, 364, 272	955, 584	614, 508	246, 056	476, 112
Silk, rawlbs	2, 152, 327	3, 153, 993	4, 096, 992	5, 205, 861	3, 852, 919
wastecwts	1,505	1,506	835	4, 228	1,087
thrown	254, 297	426, 866	82, 870	137, 995	216, 903
manufactures of Indiapleces	249, 360	112, 993	134, 849	128, 854	77, 798
Spices: cinnamonlbs	703, 678	691, 816	784, 977	813, 591	912, 533
pepperdo	6, 651, 824	9, 131, 827	8, 065, 954	12, 623, 463	10, 911, 684
eassia	867, 799	619, 857	636, 458	Not given.	Not given.
cloves do	893, 249	709, 854	306, 057		do
nutmegsdo	221, 103	64, 237	170, 470	do	do
ginger do	1, 131, 648	701, 456	801,360	do	do
pimentodo	2, 251, 648	2, 692, 816	2,848,560		do
Sugar, browncwts	215, 937	286, 333	471,998	241, 470	428, 360
refineddo	68, 874	30, 839	35,918	22, 711	26, 309
Molassesdo	60, 150	49, 972	105, 548	51,399	42, 206
Tallowdo	6, 783	9, 127	157,650	132,851	33, 554
realbs	6, 418, 794	8, 388, 530	12,847,026	27, 342, 603	26, 219, 654
Tobaceodo	11, 171, 184	8, 371, 314	7, 554, 218	12, 605, 155	
manufactureddo	1, 509, 319		1, 292, 080	946,865	10, 412, 328
manufactured		1, 482, 581			2, 102, 531
Winesgalls	2, 132, 738	2, 275, 306	1,923,255	2, 110, 423	2, 299, 773
Wool*lbs	20, 616, 278	25, 854, 041	44,748,508	37, 441, 617	49, 344, 277
otherdo	8, 213, 702	4, 882, 662	9, 576, 962	10, 653, 811	14, 582, 540

\* Of British possessions.

The designations of quantity given here to some extent mask the magnitude of a portion of the entries—sugar, rice, oils, dried fruits, tallow, and many other items, being designated in hundred-weights and tons, instead of pounds and gallons. In coffee, sugar, cocoa, indigo, wool, and others, the increase in 1863 is very great even over 1862, and the quantities are more than twice as great as those carried in 1859. In 1863, 41,842,311 pounds of wool were re-exported to the United States. In 1862 the following items are conspicuous among the foreign exports to the United States, which may also be found in the general table of exports of foreign and colonial produce, which follows in another place. They are here contrasted with 1860:

Articles.	1860.	1862.	
Coffee         lbs           Cotton         lbs           Currants         lbs           Hemp         cwts           Indigo         lbs           Rice         lbs           Silk, raw         lbs           Silk, knubs         lbs           Skins, goat         No           Tea         lbs           Tobacco, manufactured         lbs           Wool         lbs	1, 991 73, 808 186, 592 304 529, 648 58, 912 66, 994 3, 808 171, 555 89, 820 3, 392 2, 841, 200	902, 354 21, 507, 360 1, 435, 392 31, 440 1, 722, 000 24, 147, 200 101, 128 277, 312 385, 893 2, 589, 508 20, 864 11, 578, 426	

The corresponding quantities for 1863 cannot be obtained, except for wool and one or two other items. Many other articles increase in greater or less degree, as can be seen by reference to the general table of exports of foreign

produce to the United States.

Before proceeding to the general statistics of British trade with the United States, as prepared from the official publications of that government, the relation of the United States to the distant tropical carrying trade, and to the carrying trade generally, may be further illustrated. The India trade was for a long time in American hands, and most cargoes arriving from the east for any port of the Atlantic markets broke bulk first in our own ports, and were re-exported in United States vessels to the west of Europe. This India trade also laid the foundation of many manufactures, among them those of morocco leather, silk spinning and silk finishing of piece goods, dyeing, &c. The Calcutta trade continued longest in the possession of United States vessels, being first for a long period carried to Philadelphia with the China trade, and for the last ten years controlled at Boston. It ceased nearly with the breaking up of sailing lines in the east, in 1862 and 1863, through the piracies conducted in the interest of the rebellion.

#### CARRIAGE OF FOREIGN PRODUCE BY THE UNITED STATES.

Of the total value of the exports of the United States, a proportion varying from one-half in the earlier years to one-fifteenth in 1860 was of articles of foreign origin. For fifteen years, from 1796 to 1810, the exports of domestic produce and of foreign produce were nearly the same; the aggregate for this period being \$547,525,900 of domestic and \$514,489,291 of foreign exports. In some single years the value of foreign articles carried became very large: in 1799, \$45,500,000; in 1801, \$46,642,000; in 1806, \$60,283,000, and in 1807, \$59,643,000. The average for periods of five years each, from 1796 to 1860, shows a large excess in the early periods over those of recent years:

Annual	average,	1796	to	1800	<b>\$</b> 34,190,775
66	"	1801	to	1805	37,084,476
66	66	1806	to	1810	35,622,607
66	66			1815	
66	, "			1820	
"	66			1825	
66	66			1830	
66	"			1835	
"	66			1840	
46	44			1845	

									\$13,705,293 21,968,92	
46	"	1856	to	1860	. <b></b>		<b>.</b> .		 23,813,68	7
Single	year 1862	2							 21,145,42° 16,869,64	1
•									25,959,24	
Averag Averag	e of first e of last	ten ye	ars		• • •	• • •	• • • •	• • • • •	 \$35,637,626 22,891,306	5 6

A previous table shows the leading articles of foreign produce exported from Great Britain, and approximately the extent of the present carrying trade of that country. The same articles now make up the chief part of the trade of the United States in articles of foreign origin exported, and they have been the conspicuous elements of that trade from the beginning. A rapid increase in the quantities carried by England is observable, and a decline in those carried by the United States. To illustrate this tendency fully, as regards the United States, a comparison of periods of four or five years each, separated by a considerable interval of time, may be made, the first period being from 1824 to 1828, and the last five years ending with 1860. The first division of articles embraces crude staples of tropical or semi-tropical origin, with a few manufactures peculiar to remote countries, and subsequently a list of leading articles not of tropical origin is given:

Articles of tropical or semi-tropical origin exported from the United States.

Articles.	1824.	1825.	1826.	1827.	1828.
Cocoa	\$377,936 2,923,079	\$495,082 3,254,936	\$419,577 1,449,022	\$441,-221 2, 324, 784	\$345,874 1,497,0 <b>97</b>
Cotton	30, 311	88, 360 443, 271	28, 852 336, 295	9, 875 230, 448	22, 816 324, <b>27</b> 4
Dye-woods	545, 391 36, 813		459, 600 29, 522	350, 448 54, 739	419, <b>981</b> 39, <b>204</b>
Indigo Opiumt Silk, raw		891, 974 21, 639	712, 080	864, 951 394, 290 181, 150	362, <b>768</b> 139, <b>799</b> 47, 277
Silk manufactures of India Silk manufactures, all other	1,816,325 not named.	1,380,237 1,235,399	1,651,492 1,583,228	891, 975 814, 676	713, 616 512, 974
Spirits, West India		705, 120 263, 857	578, 729 253, 626	363, 129 208, 836	181, 307 241, 773
Sugar Tea Cigars, Havana	562, 109	1,614,697 1,482,141 33,175	1,742,034 1,308,694 41,466	1, 191, 506 772, 443 49, 977	828, <b>494</b> 672, 924 39, 945
Sulphur	2,653	3,704 448,955	696 366, 485	1, 512 342, 356	4, 313 327, 806

<sup>\* &</sup>quot;Nankeens" only. † Opium was not named previous to 1827. It was undoubtedly largely carried.

The following table gives the values of the same class of articles exported in eight years, ending with 1863. The contrast between the years of the first series in cocoa, coffee, silk, and indigo, and those of the second series, is great:

Articles.	1856.	1857.	1858.	1859. •	1860.	1861.	1862.	1863.
Cocoa	\$83, 766	\$52,801	\$167,060	\$168, 432	\$271, 987	\$195,246	\$144,099	\$261, 717
Coffee	1, 252, 416	2, 616, 904	1,589,970		2, 268, 691	777, 485	1, 382, 070	1,081,462
Cotton				18, 908	10,400	8,720	16,647	771, 007
Dye-woods	662, 767	878, 143	591, 351	320, 500	316,806	306, 599	389, 119	485, 536
Fruits	128, 626	137, 237	187, 416	152, 765	261, 645	193, 215	120, 576	207, 489
Indigo	71, 670	62, 178	390, 050	10, 348	48, 175	34, 453	117, 202	125, 943
Oil, palm and cocoa-nut					45,038	178, 236	229, 724	428, 450
Opium	19,870	20, 129	43, 549	22,943	13, 465	31, 432	52,046	38, 815
Silk, raw	4, 255	4, 163	94, 092	19,978	176, 589	124, 104	21,412	14, 112
Silk, manufactures of	574, 539	157, 186	254, 959	249, 598	299, 326	298, 704	201, 109	276, 785
Spices	475, 502	366, 548	416, 763	189, 845	489,070	386, 146	112, 317	232, 404
Spirits, West India	56, 992	42, 055	40,808	49, 406	116,807	44, 496	38, 428	32, 335
Sugar	1, 243, 499	1, 180, 263	4, 490, 050	2, 233, 281	2, 150, 839	3, 755, 781	1,307,743	1, 504, 272
Tea	1, 682, 611	1, 430, 212	1, 384, 428	2, 461, 563	1, 985, 203	1, 556, 630	638, 906	1, 032, 723
Cigars	180,742	227, 143	166,002	226, 234	273, 663	175, 993	138,869	146, 219
Wines	167, 910	129, 815	172,764	206, 013	165, 280	181, 318	170,801	174, 490

Exports of foreign articles.

In view of the general advance of trade in these articles, the entire list must be regarded as having declined from the first to the second period.

#### DIRECT TRADE WITH GREAT BRITAIN.

The British official tables of trade and navigation give the following values of imports from and exports to the United States for seven years, ending with 1862; the values being changed to their equivalent in money of the United States:

Years.	Imports from United States.	Exports to United States.
1856	162, 852, 578 165, 804, 920 165, 975, 066 216, 600, 657	\$109, 465, 684 97, 172, 172 76, 441, 513 118, 182, 597 110, 873, 176
1861 1862	239, 046, 158 134, 141, 360	53, 364, 306 92, 801, 710

Our own account of this trade is made up for fiscal years ending June 30, and it can therefore be compared definitely only in periods. It is impracticable to divide the fiscal year of the United States, and to reconstruct the summaries for calendar years.

- 4	EXPORT	IMPORTS FROM			
Years.	Domestic.	Foreign.	Total.	GR'T BRITAIN.	
1855-56 1856-57 1857-58 1858-59 1859-60 1860-61 861-62	\$160 742,372 182,650,472 156,005,200 172,155,786 197,260,756 116,583,955 105,898,554 111,436,229	\$1,618,435 3,195,312 12,089,648 2,790,067 6,080,165 3,951,968 4,699,602 9,181,577	\$162, 360, 807 185, 845, 784 168, 094, 848 174, 945, 853 203, 340, 921 120, 535, 923 110, 598, 156 120, 617, 806	\$122, 266, 082 130, 803, 093 95, 720, 658 125, 754, 421 138, 596, 484 139, 206, 377 86, 481, 430 113, 136, 709	

The British account does not include gold and silver bullion or coin, while the account of the United States does. The total value of specie and bullion sent to Great Britain among our exports in the seven years ending with June, 1862, was \$236,751,778, and the total received from Great Britain in the same period was \$55,894,096. The detail of this exchange of specie was as follows, as given in the United States record for fiscal years—the British statistics being for calendar years:

	Exports to England.	Imports from England,
1855–'56	. \$34, 161, 062	<b>\$421,771</b>
1856–'57	. 50, 890, 268	4,069,054
1857–'58	. 39, 636, 001	6, 754, 357
1858–'59	. 41,760,051	147, 383
1859–'60	. 33, 380, 575	101, 371 <sup>°</sup>
1860-'61	. 12, 174, 820	32, 678, 440
1861–'62	. 24, 729, 001	11, 721, 720
1862-'63	. 50, 339, 267	238, 499

### British account. .

	Imports into England from United States.	Exports to United States.
1856		£96, 227
1857	. Not given	. 859, 110
1858	. £4, 811, 772	202, 567
1859	. 9, 672, 981	14, 342
1860	. 4, 792, 582	1,727,220
1861	. 66, 683	7, 381, 953
1862	. 10,064,162	37, 528
1863	. 8, 147, 524	54, 195

Nors.—The importations of gold and silver coin and bullion were exempted by law from entry inwards at the custom-house until the passing of the act of 20 & 21 Vict., cap. 62, in the year 1857.

### Changing these to United States values they become:

	Imports into England.	Exports to United States.
1856		<b>\$465, 738</b>
IS57		4,642,092
1858	\$23, 288, 976	980, 42 <b>4</b>
1859	46, 817, 228	69, 415
1860	23, 197, 306	8, 359, 448
1861	322, 745	35, 728, 652
1862	48, 710, 544	181, 63 <b>5</b>
1863	39, 434, 016	263, 303

The account of exports to the United States made up from British records is but \$50,690,707 for eight years, against \$56,132,595 recorded in the United States as imported from Great Britain, a difference of near five and a half millions of dollars. As the years 1856 and 1863 embrace very small exports, the correction of the United States account to calendar years would not remove the discrepancy. The account of imports into England is also short in British records as compared with our own. Taking the six years fully reported, the total by the British tables is \$181,170,815; and by American, for fiscal years, \$202,019,715, a difference of \$20,848,910. This difference is also too large to be explained by the differences in the years. It is to be noticed, however, that the British entry was by ounces both for gold and silver, with a computed value

"at the market price at the time of entry." This is probably the chief cause of the discrepancy.

Another and important point to be observed in the general comparison of the statistics is the incompleteness of the return of United States exports in the fiscal year ending June 30, 1861. For the last three quarters of that year certain ports of the southern States failed to make returns of the commerce transacted, which in most cases continued under the flag of the United States very nearly to the close of the fiscal year. At Savannah, Mobile, and New Orleans, the transactions of three entire quarters were not returned to the Treasury Department, and at all the other ports south of Norfolk two entire quarters were not returned. These ports were the channels through which nearly all the cotton, rice, and other staples of the south were exported, and the shipment of these was unprecedentedly active in the first months of 1861, and quite down to June of that year. In the original publication of the statistics of that year no correction was made for these omitted returns, and the effect is shown in the previous table of the total values exported to England as given by the two authorities. That country credits the United States with \$239,046,158 in value of exports, while the return, uncorrected for the omission of southern ports, is but \$116,583,955.

To make the best correction practicable in the case, it is assumed, as a minimum, that the exports at these ports for quarters not returned were at least equal to the transactions of the corresponding quarters of the previous year. The total value of the exports of those ports during the like period of the preceding year was \$161,011,950 of domestic produce, and about \$500,000 in value of foreign produce. This correction of the general aggregates cannot so readily be applied to the detail of countries. The great bulk of values was of cotton, and of this but a small proportion was to other countries than England. The evidence afforded by the British statistics is conclusive that the general sum assumed is too small, since the excess admitted by them is \$170,000,000 in the three years 1860, 1861, and 1862.\*

The British account of cotton alone received from the United States during the year ending with June, 1861, would show near a hundred millions of dollars' worth beyond the quantity officially returned in the United States as having been exported, the last-named aggregate being 207,342,265 pounds, value \$22,651,923. The British report, which can in this case be made to conform in time to our fiscal year, credits the United States with 968,006,928 pounds, value \$140,961,448.

British	Pounds. 968.006.928	Value. \$140.961.448
American		22,651,923
Difference	760,664,663	118,309,525

This statement of differences in one article for the period of one year proves that if all the exports were embraced in the correction, a total not less than twenty millions greater would be required for the entire correction. The following table of monthly receipts of cotton in England from the United States shows the course of this trade for three years, and the enormous proportions it reached in 1861, for which year the United States records fail to show what it was:

<sup>•</sup> This correction was adopted in the finance report of the Secretary of the Treasury of December, 1863, increasing the total of domestic exports for the fiscal year 1860-'61 to \$389,711,391, and the foreign to \$21,145,427, the aggregate exports being \$410,356,818.

January February March .. April .... June....

Half year.....

August
September
October

December....

Half year.....

4, 725, 153

1, 199, 967 437, 291 351, 626 204, 148

221, 690

1, 446, 797

3, 861, 519

8, 586, 672

Month.	185	59.	18	60.	. 18	61.
, Montu.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
y	Cwts 177, 554 992, 468 711, 316 609, 312 708, 956 1, 525, 547	Pounds. 580, 010 3, 184, 255 2, 448, 113 2, 061, 506 2, 212, 534 4, 983, 454	Cwts. 316, 895 1, 204, 091 1, 629, 298 1, 000, 098 1, 233, 749 1, 810, 704	Pounds. 998, 219 3, 792, 887 4, 942, 204 3, 033, 631 3, 814, 741 5, 069, 971	Cwts. 172, 205 939, 970 1, 494, 521 1, 354, 605 985, 521 927, 813	Pounda. 572, 282 3, 179, 855 4, 969, 283 4, 879, 155 3, 621, 790 3, 463, 836

7, 194, 835

660, 274 179, 344 130, 732 52, 702

1, 044, 250

2, 768, 484

9, 963, 319

21, 651, 653

1, 928, 251 1, 893, 449 544, 010 405, 011

175, 234 3, 472, 111

8, 418, 066

30, 069, 719

5, 874, 635

840,064

448, 061 146, 464 3, 630

286

4, 029

1, 442, 534

7, 317, 169

20, 706, 200

3, 283, 250 1, 881, 857 657, 867 19, 058

5, 864, 199

26, 670, 399

485

20, 682

Monthly receipts of cotton in England from the United States.

Converting these into the quantities and values of the United States, the receipts of cotton in England for the three calendar years became:

15, 469, 872

1, 479, 501 1, 189, 668 678, 792

750, 051

4, 641, 807

12, 799, 707

28, 269, 579

	Pounds.	Value.
1859	961,707,264	\$136,824,762
1860	1,115,891,728	145,537,340
1861	819,522,928	129,084,731

Even after the first of July, when the ports of the United States were closed to all legal trade, and for which no estimate has been made, the quantity of American cotton received in England was very great, amounting to 161,563,808 pounds, value \$28,382,723. Probably the larger share of that received in England in July was cleared from southern ports before the last of June, and therefore it properly belongs with the additions made to correct that account in comparison with our own.

Recurring to the summaries of exports and imports between the two countries, compared on a previous page, we may assume a correction of the export values of United States records given for 1860-'61 and 1861-'62, equal to the two values of cotton shown to be in excess in this last calculation, namely: \$118,309,525 in 1860-'61, and \$28,382,723 in 1861-'62. More clearly, these are corrections on the first and second half years of 1861; and whatever may be the deduction from them on account of the later months of 1861 is fully made up by the export of other articles of which no account has been taken. The addition to the United States is therefore the sum of \$146,692.248, still leaving a small deficit in the difference between this sum and \$170,000,000 before shown to be the British excess for three years, exclusive of the foreign exports. These foreign exports amount to \$14,731,735, leaving the actual difference about ten millions of dollars.

The other portions of the series agree very well with each other. There is reason to believe, however, that the United States record is generally short of the full values as regards produce actually landed for consumption in England. Many cargoes of provisions, grain, and flour clear for Irish or Channel ports for orders; and this was more frequently the case in 1861, 1862, and 1863,

than in previous years. Apparently being cleared for British ports, and so recorded at United States ports, they do not enter at those ports, and do not appear in their imports. During the year 1862 one hundred vessels touched at Cork for orders, of which a considerable share ultimately proceeded to continental ports.

It is, moreover, established beyond doubt that there are large deficiencies in the report of outward cargoes, particularly at the port of New York. There being no outward inspection, and clearance being always given on the oath of the shipper or agent, a degree of inaccuracy has grown up, which is mainly the consequence of haste. Undervaluations and imperfect schedules of cargo occur where no intent to evade the law exists, particularly as no questions of revenue are involved. Clearance only on the verification of cargo by an outward inspector, as in nearly every European state, would be the only practicable measure for correcting these omissions, and for securing an absolutely full report of exports.

# COMPARISON OF EXPORTS FROM GREAT BRITAIN TO THE UNITED STATES WITH THE REPORTED IMPORTS OF THE UNITED STATES RECORDS.

The chief fact disclosed by these comparisons is the gigantic character of the trade conducted through British ports for other nations, and for the general markets of the world, from which our direct shipping is being withdrawn. Either in the crude form in which they were imported, or in partial or complete transformation as manufactures, vast quantities of the staple products of the United States pass through England to other markets of final consumption in every year.

Taking the aggregates exchanged for six years preceding the war, or including one year of partial disturbance, each single year of the series gives a similar result, and confirms the general conclusion. The British record is short, comparing calendar with the nearest corresponding fiscal years, as follows:

		British statement deficient.	British statement in excess.
-	1856	\$12,800,398	
	1857	33,630,921	
	1858	19,279,145	
	1859	7,571,824	
	860	27,723,308	• • • • • • •
	.861	85,842,071	• • • • • • •
	1862		\$6,320,280

The exports of British produce and manufactures are reported at the "declared real value," or on the statement of the exporter, while the exports of foreign and colonial produce are at "computed real value"—a value determined upon the reported quantities by the officers of the customs. It can scarcely be believed that the values reported when entering United States ports are in excess, nor does there appear any probable correction of these entered values which will remove the discrepancy. The solution is undoubtedly to be found in the account of remittances in the form of bills of exchange drawn against the exports of United States produce, the extent of which remittances can only be inferred from the debt of the United States held abroad, in connexion with other causes.

According to a report of the Secretary of the Treasury, made to the Senate in 1854, the amount of American stocks and loans reported to be held by foreigners June 30, 1853, was two hundred and twenty-two millions of dollars. Large sums were also known to exist of which no report could be obtained, estimated at a total nearly equal to that reported. The increase accruing in

the next seven years we do not stop to estimate. French authorities have estimated the capital held by foreigners in United States national, State, and municipal stocks, including bank and railroad stocks, at a total sum of five hundred millions. Dividends and interest paid on this sum, averaging six per cent. per annum, would require remittances to the extent of thirty millions, for which sum there would of course be no commercial equivalent, either in commodities or in money. To this must be added the expenditures of travellers and the remittances of emigrants, together not less than five millions annually. The sum of thirty-five millions, therefore, is in all probability remitted in bills of exchange to Europe, and the excess of our exports over imports in recent years is to this extent accounted for; and whatever remains of the apparent excess of exports to Great Britain over imports may be balanced by the payment there of excesses of importation over exportation with certain other countries with whom our accounts are to some extent settled in England, amounting in 1861 to fifty one millions of dollars, due from us on our trade with the West Indies, South America, Asia, Africa, &c.

The extent of the annual differences appearing on the face of the commercial statements is large, and it does not appear to have attracted the attention its importance deserves. Taking the aggregates exchanged for six years preceding the war, or including one year of partial interruption or disturbance, 1861, as given in the British account, and exclusive of specie, the nominal balance appears highly favorable to the United States. The two sums, 1856 to the close of 1861, are:

Imports into Great Britain	\$1,124,750,600
Exports from Great Britain	683,783,700
Difference	440 066 000

Or an average of \$73,494,483 annually. Deducting the excess of specie sent to England, for which we must take the statement of the United States, and which was \$167,750,401, or \$27,958,400 yearly, the balance still remaining is \$45,536,083 yearly in favor of the United States. After all consideration has been given to the account of remittances just referred to, the general state of these gigantic exchanges is less unfavorable to the United States than has generally been supposed.

TABULAR STATEMENTS OF EXCHANGES BETWEEN GREAT BRITAIN AND THE UNITED STATES, FOR SEVEN YEARS, 1856 TO 1862, FROM BRITISM RECORDS.

The following tabular statements of the entire exchanges of the United States with Great Britain in detail is copied from the last annual volume of British Trade and Navigation Reports, for 1862. For 1863 only a few specific articles can be obtained, the monthly publications of the British government distinguishing countries only in a few leading articles. The first table embodies such as are so stated by countries, comparing the three years 1861 to 1863 only, and converting the values and quantities to like terms with those of the United States.

This preliminary table shows the enormous development of the petroleum trade within three years, and that grain, flour, and petroleum, have to some extent supplied the place of cotton as the basis of exchange on England. The sum of values of these leading articles is sustained in a most unexpected degree.

# Quantities of leading articles.

^ Articles.	1861.	1862.	1863.
Cotton	819, 500, 528	13, 524, 224	6, 394, 080
	139, 608	4, 074, 588	8, 447, 292
	20, 061, 952	29, 798, 160	16, 071, 664
	1, 897, 433	2, 249, 767	1, 265, 911
	24, 722, 816	21, 830, 328	23, 774, 976
Entered for consumption.			
Wheat flour bushels barrels	20, 279, 608	30, 155, 848	16, 281, 488
	1, 929, 281	2, 287, 110	1, 278, 411

## Values of leading articles.

Articles.	1861.	1862.	1863.
CottonPetroleumWheatFlourIndian com	29, 354, 411 13, 234, 535	41, 380, 514 15, 471, 442	\$2, 435, 125 2, 738, 394 20, 371, 202 7, 562, 224 19, 226, 774

Indian corn, known to be nearly all from the United States, is not distinguished as to countries; but it is assumed as approximately correct. Other staple exports, as of cured meats, lard, tallow, butter and cheese, and tobacco, are not separately stated in the British reports. They will be found in detail in the comparative table following those taken from the British records, prepared for fiscal years from the United States returns.

Imports from the United States.—(From British official record.)

Articles				Quantities.						Com	Computed real value.	ralue.		
	1856.	1857.	1858.	1859.	1860.	1861,	1862.	1856.	1857.	1858.	1859.	1860.	1861.	1862.
Ashes, pear and not			000 10	15 500			8	15. 00.						9,00
Baeondo			145,872	35, 170			1.037	832, 114						
Sark, tanners'do			62,152	49,831			55,	35,966						
Beef, salteddo	158, 437	92, 092	134,690	182,746	221, 821	125, 007	176,111	299,099	234, 835	261,927	373,814	347, 439	203, 093	312, 498
Caoutchouc			2,512	9,570			274,	7,269						
manufac'ts of .lbs			84,828	130, 503			50,	48,398						
Clocks			102,706	190,605		-	365,	175,502						
Copper oretons			2,364	1,620			1,2%	10,791						
Copperdo	1 979 150		504 644	36 906			VO4 6	A 477 096						
Deasdodo			4,868	5,756		-75	15	2, 7, 1, 1, 0, 0, 0						
maizedo.	1,000,		394,936	3,364		20.00	1,519,	1, 601, 393		623, 292				
Cotton, rawdo	6,964,		7, 439, 623	8, 586, 672		-	4,499,	91 196 084		1, 331, 992 04 807, 386				
Guano			4,493	9,919			48	7,065		39,002				
Hemp, undresseddo	9,412		14,635	696 6			196,	8,101		19,617				
Hides, not tanneddo			3,988	16,596		-	15,	4,897		7,515				
Hopscwts.	70	351	133,344	793, 287		-	1,273,	175	044	7,680				
Iron and steel, wro't or manuf'd.							-							
Lardcwts.	121,885	168, 295	105,080	57, 934			519,							
Oil spermaceti		29 616	2,923				90							
train or blubber do	287	371	370	231	1,010		o ci	13, 489	15,867	13,323				
or snirita of turnantine do						-	43,							
Oll-seed caketons.	29, 780	45, 139	39,943	36, 459	37,308		29,				277, 633			
Petroleumcwts.							201,							
Pork, salteddo	82, 448	23, 486	164,536	68, 195		45, 120		187, 569	55, 779	96,943	140,975	108, 584		
Rice, not roughcwts.	60,864						388					81,602		
roughqrs	6,807					_								
Saltpetredo	517, 733		10,334		601, 546	_					339, 064	178,990		
Seed, cloverdo	4,883					79, 259	44, 216					196, 788		116, 161
Beaver	9,541	7,024	11, 271	13, 594	7,531	2,019	12,330	4, 532	3, 336	3,333	5,513	9,670	723	4.348

217 70	9.389.602	4 757 9084	4 294 OR34	24 957 515.34	33 647 997	16, 047, 773								Total value.
680	936,879	744, 775	579, 762	696, 426	1, 367, 810	526,941								All other articles
							1.668.940	1, 771, 798						Woollen rags, torn up to be used
	80, 550	92, 211		75, 300			247, 827	1, 110, 755	1,091,390		951, 938	3, 782, 459	83	Wool, sheep and lambs' Ibs
				176, 929				8,807		26, 219	23, 273			Stavesdo
_	-			6,077				57, 033					80	Deals, battens, &cdo
55		206,029		103, 134		120,886	4,079	65, 729	49, 547	61, 397			18	Not sawed or split loads.
		34, 344												Whale finstons.
		85, 869			106, 228	100, 724	3, 120	99.277	185, 145	226,083	233, 320	212, 456	215, 838	Turnentine
-		1,181,182										20, 313,	600,000	Tobacco, unmanufactured do
33		45, 325										455,	122,	Tea
		19,178										c.	1,	Tarlasts.
631		347, 345									14,945	41,	95	Tallowdo
5		5.217					878							Sugar, unrefined
		13,723					-					473,	481,	Kaccoondo
ri,		10,501										7	oi .	)tterdo
51	43, 266	74, 910					1, 253, 870	1, 946, 000				927	808	Tuskratdo
xc.		0,078					_					n g	n o	dartendo
12,	20,005	20, 107	32,366	17,047	36,081	26, 108	37,005	46, 207	56, 209	72, 784	56, 454	68, 725	44, 126	ож

Exports to the United States, the produce and manufacture of the United Kingdom.

Alkali soda ewts 723,069 620,041 Appara empty 723,069 620,041 Bage, umpty 703, 305,438 Best and ale bbis 31,765 25,974 Books printed 60 11,977 507 Cotlons cwts 736,484 Cotlons yavds 207,288,756,177,842,644 Earthenware & porcelain 60,884 Local amanfactures and mall work 173,302,328 Liens and watches yavds 72,302,328 Liens and watches 60078 Bath manfactures 61, 169,464 Earthen and watches 61, 143,684 Cotlons 82,213  Cotlons 84,661  Local and watches 73,438  Cotlons 84,438  Co	1838. 855, 277 18, 586 19, 609 97, 822 9, 176 301, 004 18, 486 44, 818, 134 3	1859. 1, 103, 990 17, 162 187, 434 187, 436 11, 774 204, 516 22, 146 885 28 183, 408	1,080,388 16,238 25,5412 21,905 13,513 13,510 15,500 16,776,939 17,639 1	1861. 44. 728 44. 728 10. 110 75. 630 75. 630 3. 138 3. 138 4. 630, 537 75. 727		8.6. 1385 1, 664, 213 117, 385 140, 067 118, 278 111, 146, 976 140, 067 118, 978 117, 578 126, 034 126, 034 139 126, 034 139 139 139 139 139 139 139 139 139 139	# 1857. # 14,140 1,503,191 102,591 114,353 113,037 113,037 113,037 113,037 113,037 113,037 113,037 113,037 113,037 113,037 113,037 113,037 113,037 113,037 113,037 113,037 113,037 113,037 113,037 114,037 115,037	1858. 439.887 1,006.656 19,527 19,337 109,117 109,117 109,117 10,231 118,944 181,944 181,944 181,944 181,944 181,944 181,945 1	1859. 26. 453 576, 453 6 1, 566, 227 179, 468 106, 266 106, 266 106, 266	1860.	1861. 205, 893 699 196	1862. 453, 09
722, 089 305, 438 31, 765 31, 947 34, 484 36, 198 36, 198 36, 198 36, 198 37, 38, 75 1, 744, 169 17, 39, 32, 38, 46, 169 11, 690, 464						317, 664, 1156, 126, 126, 126, 126, 126, 126, 126, 12		1, 008, 1, 109, 1, 109, 1, 109, 1, 109, 1, 109, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	4, 55, 55, 56, 56, 56, 56, 56, 56, 56, 56	596,		
305, 438 311, 977 347, 484 36, 198 36, 198 36, 198 36, 198 36, 189 37, 388 38, 464 1, 690, 464		17, 162 187, 434 189, 216 115, 216 204, 516 20, 516 20, 146 20, 146 20				156 1156 1156 126 126 126 126 126 126 126 126 126 12		4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	4 8,845,9,85			
305, 438 31, 765 31, 347, 484 36, 198 36, 198 36, 198 36, 198 36, 198 37, 302, 328 34, 169 1, 690, 464 343, 438		187, 434 183, 916 117, 774 11, 774 204, 516 25, 146, 885 28 183, 409				156 166 166 166 166 166 166 166 166 166		8,000 100 00 100 100 100 00 100 100 100 10	10,00	1, 24,		
247, 484 267, 288, 756 177, 282, 513 4, 661, 1, 744, 189 1, 690, 464 343, 438		152, 617 11, 774 204, 516 23, 146, 885 23 25, 146, 885 23 193, 409				5512 5612 1050 1050 1050 1050 1050 1050 1050 10		2, 6110 1, 613 378	288	-	78, 185	31, 446
247, 484 267, 288, 756 177, 28, 751 168, 604 1, 744, 169 1, 744, 1		204, 216 22, 216 25, 146, 885 28 26, 146, 885 28 26, 146, 885 28 26, 146, 885 28				25.55.55.55.55.55.55.55.55.55.55.55.55.5		2, 613, 81, 87, 87, 87, 87, 87, 87, 87, 87, 87, 87		70,		
36, 198 36, 756 168 604 32, 513 1, 744 169 1, 744 169 1		25, 146, 885 25, 146, 885 25, 146, 885 25, 146, 885 25, 146, 885 25, 193, 409				217,049,058 1,049,058		93, 613, 378,	165,	192,		
69, 604 4, 604 4, 169 1, 328 60, 464 43, 438		193, 409 369, 041				640, 560, 99, 99, 99, 99, 99, 99, 99, 99,		378	3 904	3 840		
69. 604 44. 661 44. 661 60. 328 60. 464 43. 438						560,0		1116	615	684		
69, 604 4, 661 1, 44, 169 102, 328 90, 464 43, 438						999		378,	598,	654,		
352, 513 4, 661 1, 744, 168 12, 302, 328 46, 1, 680, 464 343, 438					۲.	-		40,	1 170,	1 054,		
1,744,100 72,302,328 46, 1,690,464					130, 189			1, 499,	1,988	3, 136,		
72, 302, 328 46, 1, 690, 464 343, 438				101				78.	132,	123,		
343, 438	183,982	64, 752, 854	9, 988, 394 2	1, 169, 077	66, 319, 519			1,344,	1,988,	1,893,		
343, 438								56	8	42		
343, 438	771,650	1,091,019	662, 751	15,438	55,695			97,	130,	7.4		
343, 438								49,	67,	83		
905 970 A63		219,678	268, 077	172, 306	151, 154			370,	689	119,		
toos one toom	280, 726	416,617	425, 050	113, 224				4	75,	66,		
Tin, unwrought ewts. 3, 354 3, 873	6, 611	6, 100	3,517	1, 204				8.07	39,	1.018		
Wool, sheep and lambs'. Ibs							- 1	00	30	7		
Woollens, by piece, pieces. 892, 537 957, 020 by the yard yds. 34 514 505, 33 543, 358, 35	590, 190	956, 239	913, 109	7 994 063	1,067,113	1, 610, 403	1,649,529	1,080,	1,982,	1,720,		
200 600 600							_	205,	378,	317,		
Woolen yarn	152, 656	261, 968	118, 160	113, 456				67,	1,007,	1,037,		
Total value					0	1, 918, 105	18, 985, 939	14, 491, 448	8 22, 553, 405	521, 667, 065	9,064,5041	14, 327, 870

Exports to the United States of foreign and colonial produce and manufactures.

Anticlos		1	•	Inantitles.		H	1			Compr	Computed real v	value.		
Attores	1856.	1857.	1858.	1859.	1860.	1861.	1862.	1856.	1857.	1858.	1859.	1860.	1861.	1862,
Argol	3, 934	2, 025	4, 191	1,937	4,363	1,384	9,513	12, 474	6,387	12, 294	6,73	18,070	5,317	
Bark, Peruviancwts.		2,030			3, 261	1,900		7, 131	21,112				28,270	
Caoutchouecwts.	9, 360 198 198	719	5,743	1, 212	314	7,080	7,120	27, 274	4, 200	30,356	12,090	3,433	5,872	
Coffice		1,116			1,986	12,010		40,480	24, 355				337	
Cream of tartardo		196			9,718	3, 182		10,390	980				19, 251	
Currentsdodo		14,925			1,666	10,883		6, 247	97,672				11,971	
Gloves, of leather pairs.		26,038			10,548	4,800		9,508	100				520	
Gum, animi and copalcwts.		5,547			4,356	11,170		13,316	10,955				19,361	
other kindsdo	12,749	10,666			24, 634	3,418		34,980	24 338				3,037	
Hair, manufactures of, or of								11 169	2 200					
Hats or bonnets of strawlbs					068	189		2,635	1,970	5, 999	5, 101	-	1,409	
Hemp, undressedewts.	2,610	3, 791			304	1,026		4, 459	5,970	24, 710	3,698	456	1,462	
Hides not tanneddo						442		5,903	7,000	181, 117	201,429		1,674	
Iron in barstons.	3,715	3,609	5, 629	6, 929	9, 729	14,389	15, 375	112, 100	115,578	194, 663	38,335		513, 277	
Linen manufactures										1,655	359		9,380	
Nutmegs		123, 969	125, 197			123, 069		8, 791	13,942	11,976	10,935		7,118	
Oil, turpentineewts.	19 201	13 788	91 896			135, 176		9.151	10.984	50 644	16 047		108, 704	
Pepper do			6,631			202				118	971		80	
Platting of chip, straw, &c. do		11,077	17,861			066		5, 718	8, 963	15,809	98,309		00	
Rags for papertons.			9			96				155	19,953		943	
Raisinscwts.	202	1 000	13, 782			86 576		1, 152	1,406	20, 214	30,210		49 007	
Saltpetre do.	4,079	1,054	4,588					7,033	9,009	8.	7,000		975	
Senna Silk, raw do.	78,885	74, 248	38.038 1889	62, 139	66,59	27, 162	247, 598	1,644	1,599	64,964	114,996	72,232	1,234	4, 127
knubs and huskscwts.			GR							198	693			

Exports to the United States of foreign and colonial produce and manufactures—Continued.

Antiology	٠			Quantities.						Сошр	Computed real value.	alue.		
AL COIGS.	1856.	1857.	1858.	1859.	1860.	1861.	1862.	1856.	1857.	1858.	1859.	1860.	1861.	1862.
Sille manufootungs.								વાં	4	લં	બં	લ	લં	4
Broad stuffs and ribbons .lbs .	107,	e, E	217,		4,604	135, 694	2,380		8, 467				1,954	6,747
Spelter tons Spirits, brandy, proof galls. Sugar, unrefined cwts.	_		21, 059 7	67,312 43		48,	10,	13, 184 22, 170	23,850	7,895	9. K.			13, 255
Tea. Jasts. Jasts. Teath, elephants' cwts. Tin, unwrought do.	16,510 635 1,369	1,957,032	92, 567 171 3, 576	76, 234	89,820 190 360	728, 358 10 1, 096	of .	22, 648 9, 286	142,020,	6,388 5,741 21,277	5, 917 22, 058 12, 017	7, 017 9, 829	51, 592 967 6, 530	201, 044 1, 230 26, 508
Tobacco, manufactured, and eigars. Ibs.				10,086	3, 392		8,8		2,005	15,061			1,655	1,962
Wool, sheep and lambs' Ibs	250,	3, 054,	2, 396,	5, 966, 677	2, 841, 200	10, 039,	11, 578,	17,642	215,833	165, 432	421,868	3, 147	601, 638	742, 156
All other articles									239, 705	186, 368				379, 477
Total value	-							698, 772	1, 090, 956	1, 302, 253	1, 864, 487	1,240,616	1,961,179	4, 846, 037
Total British and for'n produce.							64	22, 616, 877, 2	20, 076, 895 15,	193, 701	24, 417, 892, 22,	907, 681	11, 025, 683	19, 173, 907
Total value of imports, exclusive of specie, from the United States, brought from page 45.							62	36, 047, 773,33,	13, 647, 227 34,	4, 257, 515 34	14, 294, 083 44,	727, 202	49, 389, 602, 97,	7, 715, 157

	20101	00608T	-,00.	091	1860–'61.	1861–'62.	 	1961	1862-'63.
Ex. I	At Mires.	Quantities.	Values.	Quantities.	Values.	Quantities.	Values.	Quantities.	Values.
Doc. 5		6,116	\$1,300 28,674	32, 027	\$500 109, 373	<b>8</b> 5, 396	37, 168	37,395	\$100,510
	A sures Bark, oak Beef tierces.	81,211	75, 24 75, 208 1, 752, 386	41, 598	58, 164 808, 798	4, 901	27, 570 68, 759 1, 478, 803	62, 433	40, 332 151, 069 1, 438, 730
英角角さ 	Broks and maps Brushes and brooms Butter Candles, sperm, &cdodo	3, 363, 124	24, 241 723 31, 460 31, 455	11, 117, 474	13, 485 3, 189 1, 649, 137 122, 532	19, 346, 767	16,899 3,508 3,077,066 47,065	26, 965, 957	48, 20 <b>7</b> 11, 870 5, 159, 871 75, 25 <b>7</b>
ಶಕ್ಷಕ		11, 980, 419	2, 204 1, 192, 458 11, 306	27, 888, 221	9, 505 2, 849, 678 17, 250	28, 534, 256	2, 670 2, 226, 047 10, 770	36, 878, 356	3, 636 3, 655, 119 39, 674
లలతో	Cloverseed Copper and brass manufactures Cotton The Copper and Drass Cotton The Cotton T	1, 264, 136, 782	535, 553 134, 928, 780 18, 928, 780	159, 884 207, 342, 265	868, 519 643, 194 183, 923	58, 401 3, 545, 363	260, 545 416, 415 934, 979 130, 999	267, 851 9, 480, 522	1, 508, 913 335, 017 5, 905, 222 34, 222
AEE	Drugs and medicines Figh	334	1,855	1,308	50,989 9,660	1, 542	54, 775 9, 834	1,533	122, 882
i k đớ	Furs and furskins. Gold and silver coin. Gold and silver bullion.	F 50 - 50 - 50 - 50 - 50 - 50 - 50 - 50	1, 229, 387 14, 810, 754 15, 824, 356	000 00	621, 318 6, 541, 423 4, 591, 110		496, 120 12, 325, 625 10, 345, 5.7	oct 450	36, 034, 788 9, 084, 100
O HAD	Gold and silver manufactures.  Hams and bacon. Ibs.  Hemp manufactures; cordage	19, 545, 710	31,612 1,589,528 780 780	44, 778, 796	5, 450 4, 234, 705 407	124, 231, 816		177, 222, 139	31, 933 15, 044, 991 55, 853
E E E	Blops Hope House furniture  Indian corn  and med	, 7, 000 1, 941, 325 951	<u>_</u>	5, 640, 863 8, 127, 522 2, 836	1, 286, 633 10, 665 10, 665 11, 873	4, 148, 420 14, 473, 187 1, 674	140, 330 574, 867 14, 467 8, 583, 502 5, 160	7, 633, 082 10, 783, 707 2, 330	1.577, 670 26, 796 7, 967, 359 9, 152
ZZ AR	chinery	17, 281, 659 17, 281, 659 1, 359, 380	231, 720 231, 720 1, 811, 418 298, 294	1, 400 25, 546, 203 872, C67	2, 521 1, 751 2, 566, 295 186, 852	2, 255 53, 533, 077 501, 649		60, 488, 178	
7 00	pulmor and minor to the timber of the timber hewn timber cub. feet.    consistent consis	25, 411 107, 1 1, 318, 191	134, 041 217, 474 173, 708 1, 513, 696 1, 566 1, 766, 951	6, 120	110, 188 110, 755 74, 738 1, 301, 555 14, 381 2, 073, 317	4, 216 152, 563 717, 288	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	1,075,957	134, 768 95, 937 1, 170, 435 835, 290 1, 520, 018

Exports of domestic produce of the United States to Great Britain-Continued.

Articles	1859-'60	-,60.	1960-'61	-,61.	186163	62.	1962-'63	<b>.</b> 63.
	Quantitios.	Values.	Quantities.	Values,	Quantities.	Valnes.	- Quantities.	Values.
M: whate and fish	137, 519	<b>864.</b> 261	250.943	\$139,389	550.538	\$271.430	1, 027, 908	\$682, 637
		19,205		29,297		68, 278		188,
Pork	29, 431	502, 138	16,870	286,927	54,052	759, 895	40,382	650, 569
Printing preses and type		60, 874		38,391		97, 416		140, 130
Rice	17, 539	346, 576	5, 647		33	88	8	9,926
Roadn and turpentinebbls	368, 761	964, 666	239, 450		34, 875	159, 347	5, 461	70, 134
Spirits, distilled	42, 141	17, 803	93, 399		645, 812	167, 671	78, 425	41,963
	2, 270, 524	1,036,854	1, 346, 802		901	75 010	15, 163	45,990
	8, 748, 961	901, 371	156, 865		29, 691, 002	2, 515, 914	29, 719, 327	3, 093, 592
Far and pitch.	8 8 8 8	58, 397	98, 712 21 10				2, 2, 2, 2, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	4 2,23 2,23 2,23
	2, 483, 644	428, 435	1, 995, 819				1, 620, 774	854, 874
Wax. Whatehone	76, 472	130, 404	81, 793 956, 440		86.7% 87.7%		147, 445	37,550
	1, 934, 206	2, 404, 856	24, 510, 961				27, 325, 739	36, 752, 807
Model menufactures	406, 647	<u> </u>	ŝ	ģ	3	žį.	\$	58
Wool	44, 949	13,333	606, 413	168, 264	609, 737	117, 155	125,074	81,387
All other articles		707, 542						4, 460, 521
Total exports.		196, 260, 756		116, 583, 955		105, 898, 554		166, 466, 101
			_					

This table of exports is uncorrected for the omitted record of cotton exported to England, which has previously been shown to be near \$129,084,731 for the fiscal year 1860-'61; and several other items, hides, rice, rosin, spirits of turpentine and tobacco particularly, would add several millions of dollars in value.

The increase in the value of certain exports from 1860 forward has been referred to in connexion with the British statistics, but the records of the United States exhibit the fact in a still more striking manner. Butter, cheese, hops, hams and bacon, lard, petroleum and lard oil, tallow and tobacco, are quite as remarkably increased as is flour or wheat. A comparison of 1860 with 1862 and 1863 shows the fact. The year 1861, having no especial relation to the point under consideration, is not given.

Articles.	1860.	1862.	1863.
Butter Cheese Hops Hams and bacon Lard Lard oil Tallow Pork Tobacco	1, 192, 458 757 1, 589, 528 1, 811, 418 1, 566 901, 371 502, 138	\$3, 077, 066 2, 226, 047 574, 867 8, 894, 606 4, 455, 685 82, 782 2, 515, 914 759, 895 2, 984, 232 25, 571, 094	\$5, 159, 871 3, 656, 119 1, 577, 670 15, 044, 991 6, 059, 986 835, 290 3, 093, 592 650, 562 6, 483, 921

The increase on the articles here named, none of which are distinguished in the British return before quoted, is thus \$14,470,000 in 1862 over 1860, and in 1863 the very large excess of \$31,460,000.

The important article, petroleum, was unfortunately not distinguished in the quarterly returns until July, 1863, the commencement of the fiscal year 1863-'64. The largest proportion of the sum assigned to unenumerated articles for 1862-'63 was for petroleum, which may be approximately stated at \$1,000,000 for 1861-'62, and \$4,000,000 in 1862-'63.

In view of the omission of cotton and rice almost altogether from the exports to England in the last two years, the general aggregate at which these exports are maintained is remarkable. In 1860, with very large values for these staples, the total was less than thirty millions in excess of 1863, fiscal years.

·	Values of 1860.
Cotton	\$134, 928, 780
Rice	346, 576
Rosin and turpentine	964, 666
· · · · · · · · · · · · · · · · · · ·	
	136, 240, 022

Comparing this with the difference of 1860 and 1863 in the aggregates, it appears that the increase of northern staples supplied \$106,250,000 of this loss in cotton, and this during a period of unprecedented trial to the national resources, and of vastly increased domestic consumption.

Some account of the difference in specie exports is due, however, in the above comparison; the exports of specie and bullion to England being \$45,000,000 in 1862–'63, against \$31,635,000 in 1859–'60. But the production of gold, and the great import of foreign gold from England in 1861 and 1862, had produced a surplus leading naturally to exportation.

#### BRITISH TRADE WITH CALIFORNIA.

The British official records distinguish the trade with California from that conducted with other parts of the United States. The tables previously given cover the entire trade, California included, and those that here follow are of California alone.

The annual values of this trade converted into terms of the United States are as follows:

	Imports from California.	Exports to California,
1856	\$162,827	\$2, 226, 937
1857		2, 185, 260
1858	70, 581	2, 523, 411
1859	139, 760	2, 224, 570
1860	90, 455	3, 024, 985
1861	3, 414, 968	2, 085, 691
1862	1,722,294	1, 817, 236

It is apparent that the direct trade of England with the Pacific coast of the United States is relatively less than with other sections. That trade is a coasting trade to vessels of the United States, and is protected by the laws relating to the coasting trade generally. Clearance to California direct from European ports is far more difficult than transhipment at the Isthmus of Panama. The direct trade of San Francisco with foreign countries is, therefore, larger with the East Indies and China than with European countries.

The magnitude of the trade with the Pacific States opens an inviting field to foreign occupation, but its peculiar circumstances have so far protected it. They may continue to do so in a great degree, if the quality of coasting trade and the laws which preserve it to vessels of the United States are rigidly maintained; but if these were yielded, a very little time would suffice to displace United States shipping in as great a degree in the Pacific as in the Atlantic.

Imports into England from California: British official table.

A 101 101 101 101 101 101 101 101 101 10				Quantities							Values.			
AN MANOR	1856.	1857.	1858.	1859.	1860.	1961.	1862.	1856.	1857.	1858.	1859.	1860.	1861.	1862.
Corn: wheat						160.903	91.912	ભં	વાં	ભં	qi	ભં	509.569	.e
wheat, meal, and flour.cwt 12, 709	12, 709					170, 406	13,739	12, 709					161, 743	10, 253
Guanotons	415		1,596	2,026				2, 905		8, 379	9,116			
Mitre, cubiccwt					19,172							13,979		
Nicaragua wood tons	1,161							17, 411						:
Quicksilverlbs						70, 526	158, 661						6, 391	14, 378
Silver oretons				151	48	146	46				1, 627	3,600	8, 328	2,841
Wood and timberlonds.		į	1,506	1,353			909			5,836	5, 273			3, 570
Woollbs						118, 186	191, 624						8,766	10, 380
All other articles								617	-	88	12, 860	1, 110	10, 775	57, 530
Totals								33, 642	1	14, 583	28,876	18, 689	705, 572	355, 846

Exports to California from England, the produce and manufacture of the United Kingdom.

Articles				Quantities.							Values.			
	1856.	1857.	1858.	1859.	1860.	1861.	1862.	1856.	. 1857.	1858.	1859.	1860.	1861.	1862.
A powel								4 viv	4,5				.g.	
Bags, emptydoz Beer and alebbls Coal	377 13,444 16,378	9.50 88.80 88.80 88.80	5,916 10,832 16,135	9, 4, 6, 9, 66, 6, 9, 66, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6	14,433 4,102 8,934	6,202 4,846 2,1901	30,635	5, 210 2,	37,658	43,250 178 10,250	1,1,6		18,518	. 12 SS 4
Cottons, by yardyds	<u> </u>	10,831,534	14, 121, 173		52 18,726,649	8,744,497	4,874,103	187.9 204.6 204.6	195,809			310,780	149,418	86, 155
Drugs and chemicals.									9,830			12, 668 88, 51	20, 565 29, 597	7, 717 3, 297 15, 426
Girss manufactures Hardware and cutlerycwt	1,679	1,951	2,318	1,567	1,91 <b>2</b> 3,539	1,877	1,282	6, 189 5, 914 19, 476	3, 873 19, 705	10, 740 8, 006 19, 077	25, 970 466	4, 400 9, 208 30, 119	6, 146 10, 878 37, 907	නු ල දැ වැති ල වැති දැන්
Lineas, by the yardyds Machinery	2,112,928	1,714,808	1,745,421	1,017,625	2,014,841	1,695,946	2,257,358	71,573	1,228		36, 182			88; 88; 88; 88;
Figure 1 cours Silk manufactures Spirits galls	33,654	71,987	83,896	63,062	34,314	45,720	3,031	7, 133 920 8, 412			1,71,1 10,735 10,739	1,4,4,0, 8,2,2,0, 2,4,0,0,0	-i w. e. r. 8008 + e 8008 + e	
Tin plates Woolless, by plece. pleces, by yard by yard st value All other articles	3,736 338,574	6,371 188,460	1.0883	11,090 421,637	5,147	4,477	4,689 360,057	10, 632 10, 632 18, 077 16, 999	2, 624 15, 935 19, 630 1, 958 18, 372	2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,	20, 579 37, 098 5, 108 20, 940	13,4 88 20,24 88 3,4 194 5,5 2,5 3	2, 2, 28, 1, 28, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	3,579 10,089 26,360 1,746 17,897
Total values								441, 979	433, 082	496, 633	437, 033	394, 406	418, 482	356, 794

Values of foreign and colonial	produce exported	from Great Britain to California.

Articles.			Comp	ated real ve	alue.		
Afticies.	1856.	1857.	1858.	1859.	1860.	1861.	1862.
Cotton manufactures.	æ.	e.	£. 150	£.	£. 200	£. 1,375	£. 350
Currants	55	65		914	130	520	360
NutmegsQuicksilverRice, not in husk	8		2, 496 4, 207	3, 387	17 2, 101		
Silk manufactures of India Spirits: brandy Tea	1, 890	168 1,605	1, 104 2, 561 120	564 3, 424	3, 343 2, 868	2, 932 1, 255	900 3, 680
Tobacco and cigars	135 <b>9, 77</b> 9	138 8, 142	8, 565	297 6, 189	92 10, 161	2, 588	139 5, 444
Woollen manufactures	6, 265	8, 297	5, 530	7, 814	765 ° 10, 914	1, 166 2, 610	7, 795
Totals	18, 132	18, 418	24, 733	22, 589	30, 591	12, 446	18, 668
Totals of British and for'n produce.	460, 111	451, 500	521, 366	459, 622	624, 997	430, 928	375, 462

# STEAM TONNAGE IN THE FOREIGN TRADE OF THE UNITED STATES.

Steamships were introduced into the foreign commerce of the United States in 1840, but they were of little importance for the carriage of merchandise until nearly ten years later, when the establishment of American lines to Europe, competing with the British, developed the capacity of steam transportation, and prepared the way for its general introduction into the transatlantic trade. For two or three years previous to 1850 the aggregates of steam tonnage entering the ports of the United States swelled the volume of foreign shipping very sensibly. At a later period, and with large vessels, the increase of this tonnage has been rapid, until it has reached proportions nearly equal to the sailing tonnage of all classes coming from the two or three leading commercial countries of Europe. The system was, in fact, suddenly and almost completely built up in 1848, 1849, and 1850; American lines to Havre, to Bremen and Southampton, and to Liverpool, across the Atlantic, being established simultaneously with one to Havana from Charleston, and the vast, half-foreign California and Isthmus lines. The tonnage of all these goes to swell the aggregate of tonnage published in official reports as arriving from foreign ports; but the entire Isthmus and California trade, including all that touching at Vera Cruz and Havana, either to and from the Isthmus or to and from New Orleans, should properly be separated from that crossing the Atlantic. It is so separated in the following statements, and the effect is to greatly reduce the proportion of American steamship tonnage appearing to be employed in foreign trade. Technically, clearances from Panama for San Francisco are from foreign countries, but, in fact, little or no commerce with foreign countries is represented. Little or none is represented in arrivals at New York from Chagres or Panama, or in arrivals from Cuba of steamers merely touching at that port on their way from Mexico or the Isthmus.

The statistics of steam tonnage employed in the foreign trade of the United States, therefore, require to be stated with several discriminations, to be properly understood. In the aggregate, the proportions of American and foreign appear nearly equal; but when the distinctions just referred to are made, and the absolute foreign trade only is considered, the amount of American tonnage is

greatly reduced. For several years, however, or from 1851 to 1857, the American transatlantic steam lines had great success, and attained an ascendency in that trade that appears favorably in the statistics. The arrivals at New York alone were over 120,000 tons for each of several years, and this against an average of about 80,000 tons of foreign. The Isthmus and Cuban arrivals of United States steamers, entered as foreign, amounted to 160,000 tons more at New York, yet the merchandise traffic by them from any foreign country was very small in amount, and the statements should be kept distinct.

There is also a large local trade conducted by steamers with Canada on the great lakes, the tonnage of which is technically classed with that entering from foreign ports, yet which does not represent any considerable trade strictly to be designated foreign. The annual arrivals of this tonnage are 2,300,000 tons or more,\* but its character is more nearly that of ferry and passenger transit than anything else. The amount is so little significant of commerce such as the transatlantic trade always must be, whether conducted by steamers or sailing vessels, that it has not been compiled to illustrate the relation of steam to foreign commerce generally.

With the British provinces of the Atlantic coast there has been for many years a moderately active traffic in small steamers. They sometimes come down to Boston or New York, but generally run only between the ports of Maine and Halifax, or elsewhere in Nova Scotia and New Brunswick. When running regularly, the amount of this tonnage is separately stated in the following tables:

Steam tonnage entered at Portland, Maine, from foreign countries.

	FC	REIGN VESSELS.	
Fiscal year ending June 30—	From Great Britain.	From British N. American provinces.	Total.
1855	Tons. 2,907	Tons.	Tons. 2,907
1857 1858 1859	12,794 5,538 4,924	6,854 60	19., 794 12, 392 4, 984
1860. 1861. 1862. 1863.	25, 075 32, 267 37, 071 18, 328	9,722 2,803 234	34, 797 32, 267 39, 874 18, 562

There were no entries of American steamers in the foreign trade.

Steam tonnage of foreign vessels entered at Philadelphia from foreign countries.

, ,,	00 1071		Tons.
scai year ending J	ane 30, 1851	• • • • • • • • • • • • • • • • • • • •	3, 26
Do		••••••	19 7:
Do	1853		22.48
Do			19 4
Do			8 6
Do	1856		4.6
Do	1857	***************************************	20, 0
Do	1858		Non
Do			1.4
	entries of American stea		-, -

<sup>\*</sup> No distinct separation of the steam and sailing tonnage of the lakes having been made for years previous to 1863, it is impracticable to state the exact figures, but it is assumed that more than two-thirds of the arrivals are steam. Probably the proportion is nearly three-fourths. The American arrivals of all sorts at lake ports in 1860 were 2,617,276 tons, and of British tonnage 658,036 tons; together, 3,275,312 tons.

Steam tonnage	entered at the	port of Boston	from foreign	countries.

Fiscal year ending June 30—	FOREIGN	VESSELS.	AMERICAN VESSELS.	Total tons.
	From Great Britain.	From British Am. provinces.	From British Am. provinces.	
846	11,941	3, 204		15, 14
847	11,719	396		12, 1
848	14,655	184		14,8
849	16,000			16, 0
850	20,000			20,0
851	22,000			22,0
852	26,449			26, 4
853	28,572		11,780	40, 3
854	53,667			53, 6
855	58, 114	1,610		59,7
956	57,833	10,622		68,4
857	54,945	7,980		62, 9
858	58,624	6,580	385	65, 5
859	58, 979	6, 445		65, 4
860	56,530	7,249		63, 7
861	67, 283	6, 120		73, 4
862	54, 141	2,838		56, 9
863	57, 305			57, 3

The entry of steam tonnage at Boston began with the establishment of the Cunard line in 1840, and the arrivals previous to 1846 were 12,000 to 15,000 tons annually; but the exact quantities cannot be obtained.

### American steam tonnage entered at the port of New York from foreign countries.

Fiscal year ending—	From British ports.	From Havre.	From Bremen and Hamburg.	From New Granada and Isthmus.	Total tons.
June 30, 1848	823	1,857	9,934	920	13, 534
1849		5,571	15,230	7,207	28,008
1850	3,951		15,230	54,452	73,633
1851	54,785	9,549	12,528	108, 172	185, 034
1852	63,359	23,592	13,248	157, 186	257, 385
1853	73, 314	26, 183	18,508	170,021	288,026
1854	75,302	18,917	13,494	147,227	254, 940
1855	66,092	14,929	13,402	152,347	246,770
1856	71,578	45,032	22,373	162,409	301, 392
1857	48,649	30,648	23,409	145,236	247,942
1858	35,431	54,213	19,747	103,010	215, 401
1859	2,989	51,484	9,069	111,343	174, 885
1860		68, 564		170,641	239, 205
1861		68,880		150,534	219, 414
1862		15,884		94,561	110, 445
1863				125,015	125, 015
Third quarter, 1863				33,995	33, 995
Fourth quarter, 1863				43,299	49, 222

Foreign steam tonnage entered at the	port of Net	o York from	foreign countries.
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Fiscal year ending—	British, from Eng- land.	British, colonial.	French, or from Havre,	Bremen.	Hamburg.	Belgian.	Spanish and Cuban.	Total tons.
June 30, 1844.	3,780						792	4,572
1845.	3,780							3,780
1846.	13, 351							13, 351
1847.	9, 121							9, 121
1848.	19,828		6,050				640	26,518
1849.	53, 897				22222222			53, 897
1850.	48,065			758			1,639	50, 462
1851.	41,889 59,554			758				43,940
1852.	59, 554							59, 554
1853.	81, 388 78, 256	******						81,388
1854.	78, 256		*******	******				78, 256
1855.	33,650	4,642	*4,357	6, 158	*******		1,282	48,805
1856.	39, 185		4,915	*******	1,876 17,846	*******	1,282	46, 123
1857.	137,678		15, 125	5,612	17,846	11,551 3,764		186, 812
1858.	141,903		*******	5,402	22,612	3,764	3, 183	176, 864
1859.	183, 354		3,916	34, 299	37,654	540	4,972	264,735
1860.	221,724		******	23, 358	50,951		3,276	289, 309
1861.	256, 857		*******	30, 324	46,615		*******	333, 796
1862.	231,043			33,617	52,252	3,973	1,426	327,731
1863.	290, 490	4,724	1,006	38, 388	55,737			397, 247
Half year to	DOW 455		000	04 100	20 000	4 400	000	0.2
Dec., 1863	237, 452	4,540	686	34, 122	28,678	1,425	681	307, 584
Calendar year, 1863	401,210	7,264	686	56,692	53, 200	1,425	681	521, 158

<sup>\*</sup> In part of British ships for this and the two following years.

# General aggregate of steam tonnage entering the ocean ports of the United States from 1844 to 1863.

Fiscai year ending—	American.	Foreign.	Total tons,	Fiscal year ending—	American.	Foreign.	Total tons.
June 30, 1844		4,572	4,572	June 30, 1854	100, 442	151,346	251,788
1845 1846		3,780 28,496	3,780 28,496	1855 1856	346, 901 397, 410	120,108 120,645	467, 009
1847		21, 236	21, 236	1857	333, 243	282,875	518,055 616,118
1848	13, 534	41,357	54, 891	1858	289, 296	254,748	544, 044
1849	28,008	69,897	97,905	1859	311, 764	339,016	650, 780
1850	73, 633	70, 462	144,095	1860	384, 899	391,016	775, 915
1851	193, 960	69, 201	263, 161	1861	313, 903	439,945	753, 848
1852	264, 081	105, 737	369,818	1862	212, 675	424,584	637, 259
1853	299, 806	132,444	432, 250	1863	247, 009	477,923	724, 932

For the fiscal years 1841, 1842, and 1843, an average of about four thousand tons of foreign arrived at New York.

The actual proportion of the tonnage recorded as in the foreign trade of the United States resulting from the entry of steam vessels is very large, both of American and of foreign vessels, but, as has been said, much of it is in fact not what the record appears to make it. The Isthmus trade is really coastwise rather than foreign, and therefore all, or nearly all, the American steam tonnage entering at San Francisco and New Orleans, with the Isthmus arrivals at New

York, should be struck off. The entries at both New York and New Orleans from Cuba and Mexico are in a great degree of steamers merely touching at Havana and Vera Cruz for passengers and mails, and carrying very little freight. A more legitimate trade was for several years conducted by the steamer Isabel, from Havana to Charleston.

On the North Atlantic coast, again, the steamships touching at Portland and Boston appear in some cases to have been regularly entered there, as well as at New York, in most cases, probably, bringing cargo for both ports. The Cunard line had its original terminus at Boston, however, and steamers have constantly fully discharged at Boston and Portland both, when running as part of the regular lines, or as extra ships on them, from Liverpool. The lake steamer tounage is, of course, entirely excluded, and the direct transatlantic trade is therefore reduced to the arrivals at Portland, Boston, New York, and Philadelphia. Stating this separately, the following is the result:

Actual steam tonnage arriving in foreign trade.

Fiscal year ending—	American.	Foreign.	Total.
Tune 30, 1844	Tons.	Tons. 4,572	Tons. 4, 579
1845		3,780	3,780
1846		28, 496	28, 496
1847		21,236	21, 23
1848		41, 357	53, 77
1849		69,897	90, 69
1850	19, 181	70, 462	89, 64
1851	80, 123	69, 201	149, 32
1852		105, 739	205, 93
1853		144, 224	262, 22
1854		151, 346	259, 05
1855		120, 108	204, 53
1856		119, 236	258, 21
\ 1857		282, 587	385, 29
1858		254, 845	367, 23
1859	1111	336,558	400, 10
1861		387, 885 439, 466	456, 44
1862		439, 400 424, 579	508, 34 440, 46
1863		473, 114	473, 11

To include Charleston, the American totals would be increased about twenty thousand tons annually from 1851 to 1861; but this could not be considered transatlantic trade in the sense represented above, being wholly from Havana.

Steam tonnage entered at the port of San Francisco from foreign countries.

	AME	CRICAN VES	SELS.	FOREIGN VESSELS.	Aggregate
Fiscal years by quarters.	mus and	From British colonial ports.	American.	From Eng- land, colo- nial ports.	tonnage.
1853-'54—3d quarter 1853 4th quarter 1853					
1st quarter 1854 2d quarter 1854	19, 861 21, 501				78, 125
1854-'55—3d quarter 1854	19,500				•••••
4th quarter 1854 1st quarter 1855 2d quarter 1855	20, 280 19, 500 19, 864		l		79,644
1855-'56—3d quarter 1855 4th quarter 1855	17, 563 18, 441			354	
1st quarter 1856 2d quarter 1856	22, 916 15, 894		74,814	144	76,057
1856-'57-3d quarter 1856 4th quarter 1856	17, 949 17, 435	•••••		144	
1st quarter 1857 2d quarter 1857	15, 672 12, 328		63, 384	144	63, 672
1857-'58-3d quarter 1857 4th quarter 1857	12, 158 13, 031			l 144 l	•••••
1st quarter 1858 2d quarter 1858	12,609 14,702	•••••	l <b></b>	144	52,788
1858-'59-3d quarter 1858 4th quarter 1858	11, 928 11, 944	20, 383 14, 958			••••••
1st quarter 1859 2d quarter 1859	12,609 14,854	10, 697 12, 722	110,095	144 2, 314	110, 553
1859-'60-3d quarter 1859 4th quarter 1859	21,311 20,912	10, 961 11, 995		1,995 1,136	••••••
1st quarter 1860 2d quarter 1860	21,751 15,102	9, 830 13, 538	125, 400		128, 531
1860-'61—3d quarter 1860 4th quarter 1860	12,842 17,880	10,567 7,979			••••••
1st quarter 1861 2d quarter 1861	13, 956 19, 374	5, 441 8, 450	94, 489	479	94, 968
1861-'62-3d quarter 1861 4th quarter 1861	16,572 16,484	3,738 4,012			•••••••
1st quarter 1862 2d quarter 1862	19, 563	10, 416 12, 701	102, 230		102, 230
1862-'63—3d quarter 1862 4th quarter 1862 1st quarter 1863	19,140 21,522 21,698	7,213 7,750 10,546		1,411 1,411 1,277	•••••••
2d quarter 1863	23, 175	10,950	121,994	710	126, 803

Steam tonnage entered at the port of Charleston from foreign countries.

				American vessels only.	Tons.
Fiscal	year	endi	ing June 30	, 1851	14,926
	•			1852	18,696
				1853	22,000
				1854	22,317
			•	1855	20,487
				1856	21,204
				1857	21,917
				1858	21,010
			•	1859	26,781
				1860	
Half	year	to	December,	1860	11,604

For the first three years the entries are in part estimated, the record for one or more quarters of each being lost. All the entries were from Havana.

The steam tonnage arriving at New Orleans from foreign ports was technically large from the commencement of the Isthmus trade to the close of 1860, and all in American vessels. Estimating for the record of two or three quarters, the following is the tonnage, about one-half of which is from Havana, Cuba, and the other half from the Isthmus, Central America, and Mexico. The years 1855, 1856, 1857, and 1860 are complete:

	,	Tons.
Fiscal year ending June 30,	1855	60,868
	1856	64,571
	1857	
	1858	75,000
	1859	78,000
	1860	88,530

The New York line touching at Havana was mainly a coasting and passenger trade, and this makes up more than half the total. The arrivals from the Isthmus and Mexico were much the same.

At Mobile there were a few arrivals of American steamers from foreign ports, but their amount in any year was small.

On the northeastern frontier, entering at Castine, Maine, (district of Passama-quoddy,) there is a large aggregate of tonnage accumulated by the frequent trips of small American steamers plying to New Brunswick and Halifax. The average of such arrivals amounts to over 60,000 tons annually since 1853, being in the fiscal years—

•	Tons.
1854–'55	64,219
1855–'56	67,401
1856–'57	53.178
1860–'61	55,428
1861–'62	75,324
1862–'63	61,444

The intervening years are not readily distinguished. This was all tonnage of American vessels.

The swelled volume of tonnage arriving from foreign countries during the last ten or fifteen years is more largely due to steam than would at first appear, in consequence of the introduction of the items above described. Taking the

fiscal year 1859-'60 as an example, the total tonnage reported as arriving in the foreign trade is of-

American vesselstons Foreign vesselstons	
Totaltons	8,175,196

Excluding the tonnage from Canada, the American is reduced to 3,304,009 tons, and the foreign to 1,594,575 tons. Deducting, further, for the California and Isthmus trade in American steam vessels—

For entries at New Yorktons	170, 641
For entries at New Orleanstons	88, 530
For entries at San Franciscotons	125, 400
For entries at Castine, Mainetons	<i>55</i> , 000
Totaltons	439, 571

The tonnage actually entering in the foreign trans-oceanic trade is reduced to 2,864,438 tons. The peculiar conditions attending the technical statements of tonnage and shipping have thus, to a great extent, concealed the injuries which have been suffered in general ocean commerce, misleading to the impression that large accessions were being made to the shipping so enployed, when, in fact, great and most injurious reductions were taking place.

### THE ISTHMUS TRADE.

The peculiar character of the trade passing the Isthmus of Panama, the tonnage of which appears as entered and cleared for foreign countries, but which, for reasons before stated, is taken as almost exclusively coastwise, is best explained in the consular reports from Panama, from which the following statements are taken. These statements do not distinguish the values from each country entered for consumption—only the total values from all countries.

### Values of cargoes entering Panama.

Year ending—		In transit for the U. States.		Total.
September 30, 1860	\$1,375,814	\$36, 846, 939	\$14,925,250	\$53, 148, 000
	1,145,310	50, 146, 345	13,056,250	64, 347, 905
	2,443,815	28, 232, 400	27,000,244	*57, 826, 620

<sup>\*</sup> Including \$144,160 in transit for the South Pacific coast.

### Values of eargoes from Panama.

Year ending—	Exports of Panama.	In transit from U. S.	In transit from Europe.	Total.
September 30, 1860	\$129,000	\$8, 325, 000	\$4, 400, 000	\$12,784,000
	250,000	10, 169, 225	2, 205, 625	12,624,850
	2,869,857	11, 647, 596	5, 113, 394	24,795,428

In 1860 there was, also, of merchandise exported, in thirty-one British vessels, to the South Pacific coast \$3,500,000, and in vessels of other nations \$1,200,000. In 1862 there is included in the outward total the following items:

Value of cargoes from Central America to South Pacific	<b>\$66,000</b>
Value of cargoes from South Pacific to Central America	
Value of cargoes from Europe and elsewhere (treasure)	4, 444, 268
Value of cargoes from Europe and the United States (jewelry)	578, 062

The total values inward and outward are therefore-

Years.	Inward.	Outward.	Total.
In 1859	53, 148, 004 64, 347, 905	\$13, 857, 000 17, 484, 000 12, 624, 850 24, 795, 428	\$71, 536, 925 70, 632, 004 76, 972, 755 82, 622, 049

The very small proportion of trade for consumption in Panama, and of outward exports, the produce of Panama, is decisive that the tonnage of United States steamships on that line cannot properly be regarded as in the foreign trade.

In 1862 further statements of tonnage arrived and cleared are given as follows:

Vessels arrived at Panama, and their tonnage for the year ending September 30, 1862.

Arrived inward.	No.	Tonnage.	Outward bound.	No.	Tonnage.
American ships	60 42 2 2 70	89, 184 30, 611 475 536 3, 350	American ships	57 42 2 2 70	86, 578 30, 611 475 536 3, 350
Total	176	124, 156	Total	173	121,550

The value of cargoes in American bottoms, inward and outward, in 1862 was \$59.671.194.

The following statement of the transit of treasure and freight over the Isthmus of Panama in 1862, towards the Pacific and towards the Atlantic, is also from the consular report for 1862 of Alexander McKee, United States consulat Panama.

Travel and transportation over the Isthmus of Panama for the year ending September 30, 1862.

Towards the Pacific.		Towards the Pacific. Atlantic.		
Passengers	\$4, 444, 268 \$578, 062 232, 886 35, 565	10, 127	31, 162 \$39, 049, 736 \$14, 285, 935 \$578, 062 264, 850 45, 692 563, 448 74, 819, 919 770, 963	

### Of the treasure carried towards the Atlantic there was:

Gold to the United States	<b>\$</b> 26,401, <b>693</b>
Silver to the United States	16,513
Gold to England.	
Silver to England	8,091,032 14,198,008
Dirior to England	11,100,000

#### REVIEW OF STEAMSHIP LINES.

As the tonnage accounts appear in the official records the various ocean steamship lines are but imperfectly disclosed. First, after the experimental trip of the Sirius, in 1838, the Great Western ran for several years-1840 to 1846almost alone to New York. In 1842 and 1843 there were three or four arrivals of the British Queen from Antwerp; but the principal opening of the steamer trade was made by the Cunard line, established in 1840 and 1841, from Liverpool, via Halifax, to Boston. There were several of these vessels, the Columbia, the Acadia, the Caledonia, and Britannia, the first four of the line. The Columbia was lost in 1843, and was succeeded by the Hibernia and the Cambria,\* to which were added, on the extension of the line to New York, in 1848, the Niagara, Europa, Canada, America, and the Trent and Severn, of the West India line, occasionally came to New York. The Cunard line was the pioneer as a commercial venture strictly. It always carried a larger share of merchandise than other British lines, and larger also than the American line afterwards established to British ports. A French line from Havre appears in the arrivals at New York in 1847, three or four steamers of about 600 tons each, but they disappear in 1848.†

In 1848, simultaneously with the extension of the Cunard line to New York, and its enlargement to a total of 55,000 tons arriving in the fiscal year 1848-'49, there was an American line to Bremen established. The Washington and Herrmann, and a large steamer, the United States, made several trips to and from Havre. The 1sthmus lines were begun nearly at the same time, expanding rapidly in 1850 and 1851, and, as they touched at Vera Cruz and Havana frequently, their tonnage appears as foreign arrivals, entering from Mexico and Cuba, though conducting little actual foreign commerce. In 1850 the first arrivals of the Collins line were reported at New York—the Atlantic, Pacific, Arctic, and Baltic. The tonnage by these ships rose to 75,000 tons annually in 1853 and 1854, but the line was abruptly discontinued in 1857.

An interruption of the Cunard line to New York occurred in 1855, amounting to an absolute discontinuance for the entire year, but it was fully resumed in 1856. The tabular statement preceding being for fiscal years, does not show the fact of discontinuance during the calendar year 1855. The line ran to Boston, however, as usual.

In 1856 a French line from Havre was started to New York, composed of the Barcelone, the Lyonnaise, the Alma, and Cadiz, but they made a few trips only. Several British steamers—the Jason, Etna, Alps, &c.—made a few trips also from Havre to New York in 1856 and 1857, but they were not afterwards continued.

From Bremen the Hansa, a Bremen vessel, in 1856 and 1857, made a few trips to New York, and the Jason and Argo, British, after the withdrawal of the

† Entered as the Union, 704 tons; the Philadelphia, 593 tons; the New York, 586 tons; and the Missouri, 599 tons.

<sup>\*</sup> In the tonnage of arrivals at Boston the capacity of these vessels is given at a much lower figure than when, in 1848, they were reported at New York; the Cambria being at Boston 760 tons, and at New York 1,334 tons; the Hibernia 791 and 1,324 tons; the Acadia 612 and 1,300 tons; the Britannia 609 and 1,161 tons; the Caledonia 615 and 1,116 tons. No sufficient reason appears for the discrepancy; but as it was admitted in the original calculations of tonnage, the materials for this statement must now be made up in the same manner. This decrepancy in the tonnage of the same steamships recorded at Boston and New York continues to the close of the employment of the first line of ships in 1862.

Hermann and Washington, American. A line of Belgian steamers was also started in 1856—the Leopold, the Belgique, and Constitution—but soon withdrew. The Hamburg steamers Bornesia and Hammonia, and the Bremen line, before referred to, continued in successful operation, between the North German ports and New York, from their beginning in 1856. In 1859 and subsequent years they received the addition of two or three heavy steamers—the Teutonia, Bavaria, and Saxonia, from Hamburg, and the Bremen and New York, from Bremen. Together the amount of this tonnage from Hamburg and Bremen rose rapidly from 1858 forward, amounting to 109,892 tons in the calendar year 1863. The success of the line has been so decided as to lead to a large diversion of the trade of continental Europe through the ports of Bremen and Hamburg, ranking them next to England in the general amount of trade with the United States.

The trade with France, largely carried by the American line of steamers to Havre from 1857 to the close of 1861, is now received through a British-built line, just making its first passages in June, 1864, and a second line of new foreign steamers is also started between Liverpool and New York.

The effect of the establishment of the Bremen and Hamburg lines of foreign steamers on the trade of the United States with those countries is so striking as to require notice here. The following is a comparison, beginning with 1855, of the proportion of American and foreign vessels engaged in the trade of the United States with those ports:

Vessels and tonnage entered the ports of the United States from Hamburg and Bremen.

٠.	I		erican Ssels.	FOREIGN VES- SELS.		
:			Tons.	No.	Tons.	
Fiscal year 1854	l-'55	50	39,525	236	159, 807	
	5–'56 3–'57		37, 293 37, 411	214 264	121,498 171,844	
1857	/-'58	30	91,300	235	169,060	
1858	3-759	9	11,223	218	186,599	
	)-'60 )61		4,033 8,298	193 181	170, 222 161, 005	
1861	l'62	10	7,361	196	189, 604	
	2–'63		9,018	183	179, 595	

The conduct of this trade has, therefore, almost wholly passed to other than United States vessels. The value of the trade has also increased beyond all proportion to the tonnage. In 1859-'60 the imports from the two ports were \$18,498,607, and the exports \$18,378,703—a total trade of \$36,877,310, a very little, indeed, of which was carried by American vessels.

PRESENT CONDITION OF FOREIGN STEAM LINES (JUNE, 1864.)

The present condition of the foreign steam lines to the United States is shown in the following table, first embodied in a memorial to Congress by the Chamber of Commerce of New York:

Ex. Doc. 55----5

# Foreign steam lines to the United States, January, 1864.

Line.	Route.	Name of steamer.	Tonnage of each steamer.	Total tonnage.	Remarks.
Cun <b>a</b> rd line	Liverpool to New York, and Liv- erpool to Bos- ton.	Scotia Persia Australasian China Arabia Africa Asia Europa America Niagara Canada	4, 137 3, 688 2, 663 2, 522 2, 285 2, 088 2, 051 1, 751 2, 030 1, 824 1, 831	28, 870	Under subsidy,
Screw line		Kedar	1, 628 1, 684 1, 666 1, 704	6, 682	
Dale line	Liverpool to New York.	City of London City of New York City of Baltimore City of Washington City of Manchester City of Cork City of Limerick Etna Edinburgh Kangaroo Bosphorus Branch Glasgow	2,560 2,560 2,367 2,380 2,109 1,545 1,540 2,215 2,197 1,874 448 1,962	23, 757	Transferred from Philadelphia to New York in 1857.
London and New York Steamship Company.		Bellona	1, 703 1, 683	3,386	
Anchor line		Unica	1, 274 1, 265 1, 155	3, 694	Not yet completed.
Montreal ocean steam- ship line.		St. George St. Andrew St. Patrick	1, 426 1, 393		
Galway line		Adriatic	4, 000 2, 000	2,819	
National Steam Naviga- tion Company.		Louisiana	2, 271 2, 747 2, 410	6,000 7,428	
Hamburg Ameri'n Packet Company.		Saxonia	2, 500 2, 100 2, 400 2, 100 2, 600	11,700	
North German Lloyds steamship line.		America New York Hansa Bremen	2, 509 2, 366 2, 882 2, 398		Fine vessels.
Jamaica, Hayti, Nassau, and Havana.		SaladinCorsica	518 1,042	10, 155	Under subsidy.
•	1	Aggregate tonnage	1	104, 051	

The Adriatic, here named as one of the Galway line, and now owned abroad, was originally built for the Collins line, and is the only steamer of American build which crosses the ocean. To the list above given, from January to June, 1864, the following have been added:

### The General Transatlantic Company's line between New York and Havre.

Washington, 3,204 tons	900 horse power.
Lafayette, 3,204 tons	900 horse power.
Eugenie, (afloat)	900 horse power.
France, (building)	900 horse power.
Napoleon III, (building,)	1, 100 horse power.

### The National Steam Navigation Company's line, New York to Liverpool.

9 876 tons

4 112 11110 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Pennsylvania	2,972 tons.	
Louisiana		
Westminster		
Queen	3. 612 tons.	(building.)
Erin		
Ontario		
Helvetia	3 209 tons.	(huilding)

Various propositions for the establishment of new American steam lines to foreign countries have been made during the last year, and it has been claimed that the aid of the government should be accorded to any lines which should be opened, at least to the extent of the aid regularly accorded by the British government in like cases. The circumstances surrounding any such enterprises at the present time are decidedly adverse, unless aid of some decided character is afforded. The national and semi-official character attached to European steamer lines by the governments supporting them undoubtedly goes far toward securing them precedence in passenger carriage, in important and valuable freights, and in every element of security, with the advantages it brings—the consideration of chief importance now in distant voyages. A system of official recognition similar to that which has so long characterized the royal mail steamer lines of Great Britain is urgently needed for the United States.

At the instance of the promoters of a new steam line to Brazil, among others, Congress has just passed an act extending aid in the form of guaranteed pay-

ments for postal service.

Virginia

The following very valuable statements and tables from the memorial of the Chamber of Commerce of New York, before referred to, prepared by John Austin Stevens, jr., esq., secretary, are by permission reproduced here. They cover the several points to which they relate so completely as to render the preparation of similar tables unnecessary, while it would be scarcely possible to equal them in force and completeness. The principal table of existing steamer lines previously copied is given at the close of a history of American steam lines, from which the statement of passages which here follow are taken.

# Average passages of the Cunard steamers in 1859.—(From the report to Parliament of the select committee in 1860.)

### LIVERPOOL AND BOSTON.

, mit mit oo		0001	, A.						
	passages Liverpool ton.*	Average time of passages.			passages Boston to pool.	Average time of passages.			
	No. of p from Li to Boste	Days.	Hours.	Minutes.	No. of pass from Bosto Liverpool.	Days.	Hours.	Minutes.	
Niagara Arabia America America Europa.	3 6 5 7 6	15 12 14 14 13	4 19 20 4 3	17 6 30	3 6 6 5	11 10 11 11 11	11 7 14 2 15	33 6 20 50 15	
	27	13	- 20	53	26	10	23	21	
LIVERPOOL	AND N	EW Y	ORK.						
•	# To +	Aver	are ti	me of	2.4	Aver	nee tin	ne of	

		Average time of passages.			passages vew York erpool.	Average time of passages.			
Names of steamers.	No. of passages from Liverpool to New York.†	Баув.	Hours.	Minutes.	No. of pas from New to Liverpo	Days.	Hours.	Minutes.	
Persia	7 8 7 3	11 13 13 15 15	11 7 4 13 19	49 34 39 55	7 8 8 3	9 10 10 11	16 20 22 23	57 57 20 5	
Reducing Boston to New York distance, the average of all passages is	26 53	13 13	3 23	20	26 53	10 11 12	16 5 14	40	

# Average passages of the Collins steamers at several periods.

## NEW YORK AND LIVERPOOL

ZEW ZORIE	THE DI	1 2201	002.					
	assages verpool York.		age th		assages w York pool.		age th	
Names of steamers.	No. of p from Li to New	Days.	Hours.	Minutes.	No. of p from Ne to Live	Days.	Hours.	Minutes.
1856.—Baltie§	7 4	19 11	12 13		7 4	11 10	8	

### NEW YORK AND SOUTHAMPTON.

	passages uthamp- f. York.		age tin		passages . York to mpton.		age tin	
Name of steamer.	No. of p from Sou ton to N.	Days.	Hours.	Minutes.	No. of from N. Southan	<b>Days.</b>	Hours.	Minutos.
1860.—Adriatic	5	10	2	20	5	9	19	33)

<sup>\*2,823</sup> nautical miles. †3,913 nautical miles. ; One trip. § The shortest passage across the Atlantic was by the Baltic in 1854; time, 9 days, 16 hours, and 59 minutes. ¶ Distance to Southampton exceeds that to Liverpool 59 miles.

An estimate of the correspondence conveyed by the British American packets (Cunard line) in one year, 1859; of the total British postage thereon; of certain deductions to be made from the total British postage; of the British sea postage remaining after making those deductions; of the cost of sea conveyance, and of the difference between the cost of sea conveyance and the amount of sea postage.—(From the report of the select committee on postal and telegraph contracts made to the House of Commons in May, 1860.)

	No. of lettern.	British postage on letters.	No. of packages of printed mat-	British postage on printed matter.
Between the United Kingdom and the United States  Between the United Kingdom and Canada  Between the United Kingdom and the rest of British North	4, 810, 000 243, 800	£82, 500 6, 000	1, 758, 000 *471, 800	£7, 500 1, 600
America and Bermuda	135, 700	†4, 550	<b>‡164, 920</b>	670
Between the United Kingdom and Havana, Mexico, and California  Between intermediate ports	46,000 Cannot be stated.	2, 750 2, 700	34, 400 Cannot be stated.	140
Between the continent of Europe and North America, in open mails  French and Prussian closed mails	115, 300 290, 500 ozs.	5, 620 17, 950	104, 000 321, 000 ozs.	460 530
Total British postage on printed matter				10, 900 122, 070
Total British postage on letters and printed matter  Deduct for returned letters £4,835  Deduct for British inland rate 1½d, per letter on the whole number of letters in the number column 11,000  Deduct half the postage on the printed matter, with the exception of the 1 centime on the			•••••	132, 970
French and Prussian closed mails				20, 970
Total sea postage			••••	112,000
Cost of sea conveyance.				
For conveyance of mails between Liverpool and to Halifax and Boston, and between Liverpool and New York			•	
Bermuda and St. Thomas, and between Hali- fax and St. John's, Newfoundland				191, 000
Loss on the service, viz., difference between sea postage and cost of sea conveyance		••••••	····	79, 000

<sup>\*</sup> Of this number only 384,000 (which were despatched from the United Kingdom) produced any British ostage. † Including £1,500 for postage on official letters. ‡ Of this number the papers recaived in the United Kingdom produced no British postage.

## United States mail service abroad, October 1, 1852.

No. of route.	Points.	Distance.	No. of trips.	Contractors.	Am't of pay.	Contract.
	New York, by Southampton, England, to Bremen- Haven, Germany. Charleston, So. Carolina, by Savannah, Georgia, and Key West, Florida, to Hayana, Cuba.	Miles. 3, 760 689	Once a month. Twice a month.	Ocean Steam Naviga- tion Company.—C. H. Sand. M. C. Mordecai	\$200, 000 50, 000	With Postmaster General, act of Congress March 3, 1945. With Postmaster General, acts of Congress March 3, 1847, and July 10, 1848.
3*	New York to Aspinwall, New Granada, direct. New Orleans, Louisiana, to Aspinwall, New Gran- ada, direct. New York, via Havana, to New Orleans, Louisiana,	2,000 1,400 2 000	Twice a month.	George Law, M. O. Roberts, and B. R. McIlvaine.	290, 000	Under contract with Secretary of Navy, acts of Congress March 3, 1847, and March 3, 1851.
5	Astoria, Oregon, with sundry stoppages.  New York to Liverpool	4, 200 3, 109	Twice a month.  26 p'r year	Company.	848, 250 858, 000	Contract with Secre- tary of Navy and Postmaster General, acts of March 3, 1847, and March 3, 1851. Contract with Secre- tary of Navy, March 3, 1847, and July 21.
	New York, by Cowes, to Havre, France.	3, 270 60	Once a month.	Ocean Steam Naviga- tion Company.—M. Livingston.	150, 000 50, 436	1852. Contract with Post master General, March 3, 1847. Service of Pahama
	•		month.		2,446,686	railroad under tem- porary arrangement, act of Congress Mar. 3, 1851, at 22 cents per pound.

# Table showing the foreign steam communication of Great Britain and the government subsidies.—(From the report of the Postmaster General, 1862.)

No. of lines.†	Destination.	Number of trips.	Companies.	Date of contract.	Subsidy per sopujo.
12	Southampton, Vigo, Oporto,	Three times a month	Peninsula and Oriental	Admiralty, Janu-	æ5, 000
13	and Lisbon. Southampton to Gibraltar,	,	Steam Navigation Co.	uary 9, 18 <b>52</b> .	
20	Malta, and Alexandria. Marseilles, Malta, and Alex-	Four times a month		• • • • • • • • • • • • • • • • • • • •	
	andria. Suez and Bombay Suez and Calcutta		đo.	Admiralty, January 1, 1853,	349, 695
14	Bombay and China	1)	do	( July 7, 1854.	<b>)</b> .
15	Point de Galle and Sydney. Liverpool, Halifax, and	Once a month	do	Post office, April 16, 1861.	134, 672
	Boston.	Weekly	Sir S. Cunard	Admiralty, June	176, 340
16	Liverpool and New York Halifax, Bermuda, and St.	Once a month	,do	24, 1858. July 1, 1854	14, 700
	Thomas.				14, 700
17		Twice a month	Royal Mail Steampacket Co.	July 5, 1850	} 270,000
	Brazil and River Plate		do <u>.</u>	January 1, 1851	)
18	Pacific	do	Pacific Steam Naviga- tion Co.	April 1, 1862	25, 000
19	West Coast of Africa	Once a month, to touch at Madeira, Teneriffe, Sierra Leone, &c.	African Steamship Co	Sept. 24, 1858	30, 000
20	Cape of Good Hope	Once a month	Union Steamship Co	Sept. 12, 1852	33, 060

<sup>\*</sup> Of these lines, Nos. 3, 4, and 7 are now in operation—all the ocean lines being withdrawn. † The preceding numbers are of domestic lines or lines to the continent.

### Table showing comparative subsidies to American and British lines in 1857.

### AMERICAN.

Line.	Trips.	Distances.	Subsidy.	Gross post- age.	Total miles.	Pay per mile.
Colins Bremen Havre Aspiriwal Pacific Havana Vera Crus	29 13 13 24 24 24 24 24	3, 100 3, 700 3, 270 3, 200 4, 200 669 900	\$385, 000 125, 937 88, 484 290, 000 348, 250 60, 000 29, 062	\$415, 867 128, 937 88, 424 139, 610 183, 238 6, 298 5, 960	194,000 96,000 85,020 153,600 201,600 32,112 43,200	\$3 10\frac{1}{1 34} 1 00\frac{1}{2 1 86\frac{1}{2}} 1 70 1 86\frac{1}{2} 07
Total	ļ. <b></b> .		1, 329, 733	*1, 035, 740	*725, 732	†1 80 <del>1</del>

<sup>\*</sup>The slight errors in these footings occur in the original.

† Average.

### BRITISH.

Lįne.	Trips.	Distances.	Subsidy.	Gross postage.	Total miles.	Pay per mile.
Connard	52 24 24 12 24 24 24 24	3, 100 11, 402 14, 000 2, 042 2, 718	£173, 340 270, 000 244, 000 185, 000 14, 700 25, 000	£143, 667 10 106, 905 00 178, 186 11 33, 281 13	304, 000 547, 296 796, 637 336, 000 98, 000 130, 434	11s. 4\d. \\$2 38\dag{4} 9 10
West Coast of Africa	1.3	6, 245	23, 250	French, Belgian, and Dutch postage.	149, 880	2 06 0 62 <u>4</u>
Channel Islands. Holyhead and Kingston Liverpool and Isle of Man Shetland and Orkneys.	156 780 112 52	132 64 70 200		74, 430 08 36, 158 09 10, 032 15	41, 184 93, 440 14, 560 20, 800	
Total			1, 062, 797	591, 573 07	2, 532, 231	9 7 2 39

Total average per mile, \$2 101. Average of four principal lines, \$2 39.

These subsidies have been gradually increasing from the year 1850, and additions made as new services were required from the lines, growing out of the increased commerce which followed their establishment; and in times of commercial distress, as well as in prosperity, the same sustaining and unfaltering protection has always been afforded by the sagacious and far-seeing policy of the British government.

## STEAM SHIPPING AND TONNAGE OF GREAT BRITAIN,

The steam marine of Great Britain is intimately related to that of the United States so far as foreign trade is concerned. The increase of foreign shipping of all classes conducting the foreign trade of the United States is almost wholly British, and the successful lines of steamers newly established, as well as those which have at any time taken the place of American lines, are also nearly all British. The statistics of British shipping are, therefore, essential to the proper consideration of the changes in progress directly affecting American shipping.

The first table which follows shows the tonnage of all classes entering British ports for five years to the close of 1863, the steam tonnage not being separated. The most conspicuous fact apparent in this table is the increase of the aggregate of British tonnage, the fixed position of foreign tonnage, and the decline

in tonnage of the United States.

## Summary of tonnage entering ports of Great Britain.

	In 1859.	In 1863.
British	5, 398, 953	7, 299, 417
All foreign	3, 700, 597	3, 838, 529
United States	1,077,948	692, 3 <b>37</b>

The increase of British is near 2,000,000 tons, while that of the United States declines 385,611 tons in five years. A still greater decline is apparent when the maximum year 1861 is compared with 1863, the first giving a total of 1,647,076 tons, and the decline to 1863 being, therefore, 944,739 tons. This decline is undoubtedly due to the immense number of American vessels sold abroad in 1861, 1862 and 1863, the great majority of which were purchased by the British. Thus the increase of steam vessels, which is wholly foreign, combines with the loss of the magnificent fleet of sailing ships, long the pride of United States commerce, to expel the United States flag from the chief centres of foreign commerce.

It is noticeable that France and the German, as well as other continental states conduct a relatively small trade with British ports. The largest item of tonnage is Norwegian, the next Prussian; yet the largest is but a tenth part of the British tonnage; and the total belonging to all other countries is, in 1863, reduced to about half the aggregate of arrivals. The progress made toward the entire control of the British trade by British shipping during the five years covered by the table is very extraordinary, and it is probably mainly due to the rapid development of steam transportation in every line of commerce, and in the carriage of heavy and crude tropical products as well as in the exchanges between states producing the most valuable classes of goods.

		,		7		D				
Countilion		1859.		1960.		1961.		1872.		1863.
COULLIES.	Vessels.	Tons.	Vessels.	Tons.	Vessels.	Tons.	Vessels.	Tons.	Vessels.	Tons.
British United Kingdom and dependencies.	19,909	5, 388, 953	20, 104	5, 762, 464	21,060	6, 304, 099	22, 356	6, 590, 149	23,773	7, 299, 417
Foreign	16, 389	3, 700, 597	18, 270	4, 292, 823	16, 529	4, 300, 470	17 770	4, 149, 941	18, 140	3, 838, 529
Total	36, 298	9, 089, 550	38, 374	10,065,287	37,589	10,604,569	40, 126	10,740,090	41,913	11, 137, 946
United States Russian Swedish Norwegian Norwegian Prussian Prussian Mecklenburg and Oldenburg Hanoe Towns Dutch Belgian French Spanish Spanish Spanish Sicilian Austrian Greek Other European countries	11. %%1. % 22.0 %1. % 22.0 %2. 1. % 22.0 %2. 1. % 22.0 %2. 1. % 22.0 %2. 1. % 23.0 %2. 1. % 24.1 % 25.1 % 26.1 % 2	1,077,948 1103,362 1103,362 1278,131 1278,519 1278,519 1278,519 128,050 128,050 128,050 138,238 138,23	1, 1,0,0,1 1,14,0,0,1 1,14,1,0,0,0,0,1 1,14,1,0,0,0,0,0 1,14,1,0,0,0 1,14,1,0,0 1,14,1,0,0 1,14,1,0,0 1,14,1,0,0 1,14,1,0	1, 36 1, 36	1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	1,64,076 135,285 135,285 133,568 133,568 133,568 153,683 153,684 153,682 153,682 173,683 17,745 17,788	1, 85, 87, 87, 87, 87, 87, 87, 87, 87, 87, 87	1,179 134,588 161,778 161,778 166,200 146,200 166,200 168,907 168,907 17,708 181,858 187 19,903 117,708 117,708 118,888 117,708 117,708 117,708 117,708 117,708 117,708 117,708 117,708 117,708	28.5 4.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6	88.88.88.88.88.88.88.88.88.88.88.88.88.

The statistics of British steam tonnage in foreign trade are somewhat difficult of access. The distinction between registered and enrolled vessels is not there, as in the United States, a general line of separation between the class of shipping in foreign trade and that in the coasting trade. Very narrow seas separate England from several distinct foreign powers, and the most positive form of papers establishing the nationality of a vessel are necessary as well as convenient, therefore. Of the registered steam vessels belonging in England in 1860 and 1861 a large proportion were under fifty tons, as follows:

		VESSELS OF		SSELS OVER
Years.	No.	Tons.	No.	Tons.
In 1860	802 854 898	18, 471 19, 683 20, 864	1, 186 1, 268 1, 319	433, 881 485, 015 515, <b>27</b> 0

The employment of British registered steam vessels, not including colonial, as divided between the home and foreign trade in 1860, 1861 and 1862, was as follows, exclusive of river steamers:

	IN HO	ME TRADE.		HAVRE AND FOREIGN.	IN FORE	IGN TRADE.
Years.	No.	Tons.	No.	Tons.	No.	Tons.
In 1860	402 448 434	92, 254 102, 795 104, 020	80 72 89	29, 803 24, 924 29, 463	447 477 510	277, 437 313, 465 328, 310

### Total in all, other than river trade.

Years.	No.	Tons.
In 1860	929 997 1,033	399, 494 441, 184 461, 793

The number of steam vessels built and registered in the United Kingdom from 1853 to 1861 was large, and three-fourths or more were built of iron.

Number and tonnage of steam vessels built in the United Kingdom.

Years.	No. of iron.	Whole No.	Tonnage.
1863	117	153	48, 215
1854	152	174	64, 255
1855	195	233	81,018
1856	175	229	57,573
1857	155	228	52, 918
1858	. 112	153	53, 150
1859	. 106	150	38,003
1860		198	53,796
1861	. 159	201	70,869
1862	. 181	221	77, 338

The preponderance of iron in steamship building began in 1853, and it is noticeable how completely that material has controlled since that time. In the ten years of the table there were 1,501 steam vessels built of iron, out of a total, of all dimensions, of 1,940 only, leaving but 439 built of timber.

The proportion to which foreign-built steam vessels enter into the home or foreign trade of England is relatively smaller than the sailing tonnage, notwithstanding the opening of the coasting trade to foreign bottoms in 1853. The German states and the French have a moderate share in that trade—small, indeed, rather than moderate—while the United States have now absolutely none. The united tonnage belonging to all foreign nations is not one-sixth of the whole.

Number and tonnage of steam vessels of each nation entered and cleared at ports of the United Kingdom in 1860, 1861, and 1862.

	vessels entered.							
Nationalities.		1860.		1861.	1862.			
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.		
Brifish.	6, 631	2, 144, 736	7,229	2, 375, 856	7,754	2, 645, 126		
United States	2	2,818	5	7,778	1	618		
Russian	24	11,671	23	14, 158	21	13, 491		
Swedish	33	8, 190	20	4,914	34	10,624		
Norwegian	19	9, 262	17	6,647	18	6,965		
Danish	62	15, 149	34	8,765	35	10, 591		
Prussian	64	16, 456	46	12, 461	51	14,557		
Hanoverian	26	4,637	22	3,603	22	3, 496		
Oldenburg and Mecklenburg.	22	4,686	21	4, 473	20	4, 494		
Hamburg	197	99,503	176	95,708	200	110, 354		
Bremen	144	69, 188	131	69, 297	152	87,74		
Lubec	11	3,816	4	1,532	3	1,249		
Dutch	269	60,059	297	64,650	266	67,939		
Belgian	137	33, 984	226	49,096	215	49, 121		
French	216	29, 494	352	45,081	555	71, 497		
Spanish	58	19, 265	89.	34, 631	118	55, 13		
Portuguese	ii	14,677	3	2,552		00,100		
Austrian	ī	300	Ĭ	341				
Turkish	2	930	l	l				
Italian	ļ				1	618		
Total entries	7,929	2, 548, 911	8,696	2,801,743	9, 466	3, 153, 440		

			vessel.	s cleared.		
Nationalities.		1860.		1861.	1	862.
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
British. United States. Russian Swedish Norwegian Danish Prussian Hanoverian Oldenburg and Mecklenburg Hamburg Bremen Lubec Dutch Belgian French Spanish Portuguese Austrian	11	2, 041, 884 5, 991 10, 935 7, 975 8, 853 14, 685 15, 960 3, 652 5, 409 95, 924 66, 014 4, 364 63, 183 24, 865 14, 531 18, 071 12, 825	6,818 8 29 19 18 39 45 5 22 20 184 135 7 305 74 61 87 3	2, 284, 888 10, 896 14, 009 4, 872 6, 707 10, 591 11, 899 3, 603 4, 360 100, 046 70, 722 2, 670 66, 252 24, 877 17, 354 35, 097 1, 304	7,447 1 26 33 18 36 50 23 23 201 151 5 278 80 80 118	2, 594, 367 449 13, 656 11, 771 6, 630 10, 853 14, 380 3, 657 5, 107 113, 836 85, 366 1, 956 70, 433 29, 882 27, 168 57, 102
Turkish and Greek Other countries  Total entries	7,222	2, 672 1, 065 2, 418, 562	3 7,878	1, 356 2, 672, 444	17 8,588	6, 201 3, 052, 960

The contrast exhibited in these three years with the proportion of American steam tonnage employed in trade reaching British ports in 1853 is very striking:

Number and tonnage of steam vessels of each nation entered and cleared at ports of the United Kingdom in 1853.\*

Nationalities.	EN'	TERED.	CLEARED.		
& ( USE CAMBLE SECTION	Vessels.	Tons.	Vessels.	Tons.	
British	3,984	1, 1 <b>76</b> , 850 190	3,668	1,090,000	
Norwegian	2 17	145		4 804	
Danish		4,471	18 10	4,734	
Other German states		2,788 32,457	117	2, 350 31, 365	
Dutch		32, 457 38, 566	185	38, 434	
Belgian		28,888	121	27, 858	
poisian	14	1,526	14	1,526	
French Spanish	14	3,085	13	2,929	
Portuguese		3,003	13	2, 525	
American, United States		46,670	38	51, 347	
Totals	4,505	1, 335, 636	4, 185	1, 250,749	

<sup>\*</sup>From the valuable memorial of the Chamber of Commerce before referred to. The various statements and explanations of that memorial cover almost exactly the ground here embraced, and the statistics are necessarily nearly identical. The entire matter of the memorial is extremely compact and clear in its illustration of the present position of British steam vessels in general foreign commerce.

The total tonnage and the number of vessels is more than double in 1862 over 1853, and the increase is almost wholly British, the American almost wholly disappearing in 1862, although creditably large in 1853. The steam marine of Sweden, Norway, Denmark, and the north of Europe generally, shows a very fair development from 1853 to 1861. The French and Spanish share in the increase; and, on the whole, the development of European states in this respect indicates a purpose in each not to be left behind in the progress of ocean commerce.

The British statements of trade in steam vessels to American countries north and south are worthy of attention:

Entrances of steam vessels at ports of the United Kingdom from the United States for 1853, 1860, 1861, and 1862.

	B	LITISH. AMER		ERICAN. OTHER CO		COUNTRIES.	T	TOTAL.	
Years.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	
1853	86	89, 293	23	32,.955			109	100.040	
1860	154	197,520	25	32,.900	2	3,026	156	122, 248 200, 546	
1861	152	206, 075	1	2, 100	3	3,586	156	211,561	
1862	152	227, 468	1	618	4	5, 316	157	233, 402	

While, as this table shows, there are now very few entries of steam vessels from the United States at British ports except the British, there are many entrances and clearances of steamers of other countries to and from other ports of the continent southward. Steamers of Spain, France, and Germany are already in the carrying and passenger trade of the tropical countries of this continent. From Cuba one Spanish steamer entered and cleared at a British port in 1860, and three in 1861. From Brazil, twenty-four steam vessels entered in 1853, twenty-four in 1860, and twelve in 1861—sixteen being British and eight of other countries in the ten years first named. In 1861 all but one were British. From St. Thomas (Danish West Indies) there were twenty-four to twenty-eight each year, nearly all British; from New Granada five to seven, and clearances of one or more to almost every American State. This point is of especial importance, since it invades a trade hitherto belonging in great part to the United States. The following table gives the number of these entrances and clearances, with their tonnage, without distinction of nationality:

Steam vessels entered at British ports from American countries.

Nationalities.	1853,		1860.		1861.		1862.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
United States	109	122, 248	156.	200,546 687	156	211,661 2,027	157	233, 402
St. Thomas, (Dan. W. I.). New Granada	27	44, 037	26 5	43,029 1,982	28	49, 138 3, 502	26 6	48,938 3,288
Brazil Hayti and Mexico	24 1	22,618 673	24	32, 259	12	17,292	13	7,654 1,775

Nationalities.	,1	853.	1	860.	1	861.	1	862.
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
United States	111	129,113	200	263,151	190	267,505	179	291,975
Cuba			1	687	4	2,645	8	4,468
St. Thomas, (Dan.W. I.).	25	40,603	27	46,303	27	46,965	28	48, 349
New Granada	1	212			2	1,052	*****	*******
Brazil	22	21,473	21	30,235	13	6,934	13	17,925
Hayti	*****		3	1,524	7	3,588	6	2,512
Montevideo and B. Ayres.			1	164	2	331	2	380
Mexico					1	468	10	3,992
Chili	1	224			1	904		

The nationality of these vessels has been in great part stated. None are United States vessels except those trading from the United States, and but four or five of these in 1860 and 1861. Further statistics of this sort, being obtainable only in the British annual volumes of Trade and Navigation, cannot be given for the year 1863. The statements for 1863 undoubtedly develop and extend the changes which the comparison of 1853 with 1860, 1861, and 1862 shows to be in progress. Great numbers of vessels have been built to add to the British steam marine in the last year, and their various lines have been very active in American trade, north and south. As shown previously, the number of steam vessels built in England in 1862 was 221, with a tonnage of 77,388 tons—a greater number than in any previous year.

# TRADE OF THE UNITED STATES WITH CANADA AND THE OTHER BRITISH NORTH AMERICAN PROVINCES.

The trade of the United States on the northern frontier with Canada, and on the North Atlantic coast with the British provinces other than Canada, is very closely connected with the internal trade in many respects. The exchanges between the east and the west, to and from United States markets, in many cases pass through Canada, as the transit tonnage of the Welland canal shows. Great quantities of wheat, flour, and other produce enter Canada at Detroit, to return again to the United States at Buffalo and Oswego, and also for export to foreign countries and European markets through the St. Lawrence, and over the railroad line to Portland, Maine. The technical exports and imports of the United States to and from Canada are, for these reasons, much modified when reduced to the facts of actual exchange between the respective markets; but it is not easy to separate the quantities and values so as clearly to disclose these facts, but some evidence in regard to the magnitude of this indirect trade may be obtained from the statistics subsequently given of American produce exported by way of the St. Lawrence; of that carried in both directions on the Welland canal; of the exports to Canada at Detroit, and the imports from Canada at Buffalo, Niagara, Oswego, Ogdensburg, and Cape Vincent, on the St. Lawrence, Champlain, and Vermont.

The trade with the British Atlantic provinces is less subject to modification, and has little connexion with the internal exchanges of the United States. The

exports are principally flour, breadstuffs, and provisions, and the imports are coal, fish, oats, stone, and lumber. In the fiscal year ending June 30, 1855, no less than \$1,280,000 in value of flour, grain, and other produce of Canada, was exported through United States ports to these provinces—a trade which was large for several years, but which ceased in 1859.

Exports of Canadian produce through the United States to other British provinces.

	WHI	EAT.	WHEAT FLOUR.		
Fiscal years ending—	Bushels.	Value.	Barrels.	Value.	
June 30, 1849		\$26, 762 23, 132 1, 344 16, 618 2, 961 3, 683	3,773 34,758 69,830 119,816 152,389 151,711 135,552 7,387 1,677 1,754 267	\$20, 433 186, 789 346, 895 563, 821 835, 896 1, 230, 865 1, 270, 057 66, 898 14, 449 10, 348 1,770	

In view of the length of time during which the St. Lawrence river is annually closed by ice, and the great facilities afforded by the railroads leading from Canada to Portland, Maine, this channel of exchanges between the provinces and Canada might reasonably be relied upon as a permanent one. Possibly the discontinuance is due to the relative excess of breadstuffs in the United States, and their export in such quantities as fully to occupy the market the Atlantic provinces afford. The exports of wheat, flour, and breadstuffs average more than half the total of United States produce sent to the provinces annually, rising to more than five millions of dollars in value in the year ending June 30, 1863. This trade is evidently for consumption only, and not in transit to any other market, as is the case with much of the wheat and flour export to Canada. It is also all cleared from ports of the Atlantic coast, and does not pass through Canadian channels.

The important relation held by both Canada and the provinces to the export trade in breadstuffs of the United States, and the connexion the trade in them to Canada has with the general internal exchanges of the United States, as before referred to, requires a statement of their quantities and values at the outset of the statistics of general trade on the northern frontier. The export to the provinces is seen to be in the regular and natural increase belonging to a consuming market, while that to Canada is irregular, apparently bearing no relation to any consumption in Canada. Probably the very large export of Indian corn was, however, for consumption in the form of distillation, and is therefore an exception. As an illustration of the trade appearing to exist to and from Canada in wheat and flour, but which is in fact to a great extent a transit trade, the following citations of the transactions of the fiscal years ending June 30, 1861 and 1662, are made:

## Exports to Canada, 1861.

Places.	WHE	AT.	WHEAT FLOUR.		
ribces.	Bushels.	Value.	Barrels.	Value.	
From Detroit	9,777 3,044,337 673,359	\$9,777 2,769,416 635,141	7,660 22,566 22,108	\$38,300 104,056 99,696	
ľ	3, 727, 473	3, 414, 334	52, 334	242, 052	

## Imports from Canada, 1861.

	FLOUR AND B	READSTUFFS.
Places.	Barrels.	Value.
At Vermont	142, 998 92, 883 93, 116 96, 159 61, 573 485, 729	\$982, 061 489, 381 500, 746 523, 967 307, 842 '2, 803, 997

# Exports to Canada, 1862.

Places.	WHE	AT.	WHEAT FLOUR.		
I laces.	Bushels.	Value.	Barrels.	Value.	
From lake ports of Ohio	349, 372 408, 428 1, 987, 276 1, 567, 657	\$333, 523 408, 826 1, 589, 634 1, 265, 616	992 19, 671 26, 525 30, 359	\$4,303 96,621 90,643 125,037	
	4, 312, 733	3, 597, 599	77, 547	316, 604	

## Imports from Canada, 1862.

Massa	WHI	EAT.	WHEAT FLOUR.		
Places.	Bushels.	Value.	Barrels.	Value.	
At Genesee. Oswego. Niagare. Buffalo. Ogdensburg. Vermont. Cape Vincent. Champlain.	659,884	\$48, 280 1, 260, 229 39, 524 748, 701 43, 357 673, 375 231, 334 43, 357	532 76,583 140,800 82,500 79,200 152,895 21,778 14,222	\$2,772 367,738 515,25 468,73 459,34 921,7 109, 22	
,	3, 112, 266	3, 088, 157	568, 510	2,920 -	

Exports to Canada of wheat, flour, Indian corn, and meal, for the fiscal years 1849 to 1863, inclusive.

Years.	Wheat.		Wheat flour.		Indian corn.		ue.	value.
	Bushels.	Value.	Barrels,	Value.	Bushels.	Value.	Meal,rye, c	Total v
1849	140,696	\$112,086	19,127	\$78.129	49.621	\$20,265	\$5,355	\$915,835
1850	78,610	58,968	29,138	132,509	89,604	42.113	3,813	237,403
1851	208.130	150,288	51,716	191,750	88,306	39.153	6,873	387,764
1852	360,405	238,808	38.688	127,068	98,898	38,681	8,681	413.241
1853	40,434	26.835	46, 35	175.648	151,416	79,462	3)3	275,248
1854	125,525	155,635	82.028	472,274	1,206.207	729,927	17,107	1,374,973
1855	240,874	365.772	58,993	494,081	1,074,869	708,426	30,761	1,599, 140
1856	991,648	1,370,971	102,611	1,341,743	1,736,131	1.057,222	110,162	3.88 ,008
1857	1,655,641	1,867,457	118,857	717,245	1,161,088	673,989	160,185	3,418,846
1858	2,673,947	2,082,648	326.045	1,681,072	486,999	298,879	135.683	4,1:8,282
1859	1,352,252	1,178,560	287,772	1,666.546	663,918	439,125	226 407	3,510,638
1860	1,120,975	1,010,681	246,359	1,253,278	827,621	522.693	126,487	2,913,139
1861	4,148.029	3,871,233	83,617	444,803	1.891.740	810,346	46 206	5)172.386
1862	4,538,472	3,801,515	118,643	536,756	3,218,438	1,010,243	68,333	5,416,85
1863	6,512,801	6,717,093	232,160	1,103,171	4,211,897	1,622,825	145,301	9,588,390

In the Canadian trade reports for 1855 it is stated that the trade in flour of the United States was, previous to the reciprocity treaty of 1854, mainly for exportation. Not being entered for consumption, it was bonded, and paid no actual duty.

The detail of imports for 1861 is not given, because it is imperfect, wheat not being distinguished in returns from other grain, and therefore that item not being available for comparison. That for 1863, following, sustains the course of trade apparent in the two previous years:

Exports to Canada, 1863.

Places.	whi	EAT.	WHEAT FLOUR.	
riaces.	Bushels.	Value.	Barrels.	Value.
From lake ports of Ohio  Detroit  Chicago  Milwaukie	1, 428, 511 345, 075 1, 519, 396 2, 880, 791	\$1,505,015 363,746 1,502,575 3,029,649	895 39,059 78,749 40,069	\$3,769 220,940 340,850 172,020
•	6, 173, 773	6, 400, 985	158,772	737, 579

### Imports from Canada, 1863.

Disco	WHE	EAT.	WHEAT FLOUR.	
Places.	Bushels.	Value.	Barrels.	Value.
At Vermont	26, 739 17, 877 135, 628 75, 521 360, 405 54, 104 20, 652	\$27, 691 18, 120 133, 933 78, 651 375, 308 60, 544 21, 076 291, 896	112,557 11,585 15,993 46,718 47,303 52 81,822 93,323	\$590, 741 53, 641 90, 993 249, 293 248, 081 264 383, 267 557, 189
Buffalo	958, 254	1,007,219	393, 360	2, 173, 479

### Summary of values exchanged, 1862 and 1863.

•	value of wheat and flour to Canada.	and flour from Canada
1862		\$6,808,684 3,180,698

It is known that considerable shipments of wheat from Chicago and Milwankie, in 1863, though cleared for Canada, were really destined for export through the St. Lawrence to Europe. In the Canadian trade reports the value of "goods in transitu from the United States," exported seaward by the way of the St. Lawrence annually, is given, but this is not necessarily distinctive of the produce of the United States actually taking that route to other foreign markets. Flour made in Canada of American wheat may be exported, and even grain, passing in and out without payment of duty, may first be placed in Canadian markets, and again be withdrawn for export abroad.

In the tables just given, showing the exchange of wheat and flour for three years, it will be seen that the largest values are of wheat exported and of flour imported. All the exports are at ports west of Buffalo, and all the imports at Buffalo and eastward. The railroad lines terminating at Buffalo, Niagara, and Vermont, carry large quantities of flour, much of it made in Canada from wheat of the United States imported from the upper lake ports. In any case, the volume imported at all the ports of the border does not differ much from the volume exported; the trade, therefore, being one of convenience in transit, rather than one between producing and consuming markets, so far as wheat and flour are concerned. The modification of the aggregates exchanged between the United States and Canada is, therefore, for the three years, nearly five and a quarter millions of dollars reduction on both exports and imports, or ten and a half millions in the sum total of exchanges for each year.

There are other elements of the trade to Canada in which the movement is similarly indirect, in comparison with other departments of foreign commerce, but none of them are of much importance. The export trade to Canada has undergone many changes since the enactment of the reciprocity treaty, in 1854, the chief of which is the decline of manufactured articles, and the swelling of the general volume with wheat, flour, corn, pork, and salt. In the following tables the exchange of these articles is distinguished, as far as may be done, by the aid of both the American and Canadian records, and separate statements are made of the imports and exports of articles made free of duty by the

The distinction between Canada and the provinces was not made in the export or import returns of the United States previous to 1849, but as the trade with Canada was conducted solely at ports of the northern frontier inland, and that with the coast provinces wholly at Atlantic ports, the compilation has been completed by assuming this division as correct. All the statistics of the trade under the reciprocity treaty were originally reported without separating Canada from the remaining provinces, and the division of values has necessarily been made on the basis just named. In a very few instances small values may have gone from Canada out at the St. Lawrence to enter at Atlantic ports, and similar instances of articles sent from the provinces of the coast inland may have taken place, but the total of such trade in either case would be very small for any single year, or for the aggregate of the series of years.

Exports	to	Canada.
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	Fiscal year ending—	Domestic exports.	Foreign ex- ports.	Total exports.
June 30	, 1849	\$2,320,323	\$1,914,401	\$4, 234, 724
	1850	4, 641, 451	1,289,370	5, 390, 821
	1851	5, 835, 834	2,093,306	7, 929, 140
	1852	4,004,963	2,712,097	6,717,060
	1853	4,005,512	3, 823, 587	7, 829, 099
	1854	10, 510, 373	6,790,333	17, 300, 700
	1855	9,950,764	8,769,580	18,720,344
	1856	15, 194, 788	5, 688, 453	20, 883, 241
	1857	13, 024, 708	3, 550, 187	16, 574, 898
	1858	13, 663, 465	3, 365, 789	17, 029, 254
	1859	13, 439, 667	5,501,125	18, 940, 795
	1860	11, 164, 590	2,918,524	14, 083, 114
	1861	11,749,981	2,611,877	14, 361, 858
	1862	11, 282, 107	1,560,397	12,842,504
	1863	*18, 430, 605	1, 468, 113	19, 898, 718

<sup>\*</sup>Including \$3,502,180 of unusual export of gold coin.

NoTE.—Previous to 1849 the trade with Canada is not distinguished from the total to all British North American colonies.

## Exports to other Provinces.

Fiscal year ending—	Domestic exports.	Foreign ex- ports.	Total exports.
June 30 1849	\$3,611,783	\$257,760	\$3, 869, 543
1850	3,116,840	501, 374	3,618,214
1851	3,224,553	, 861, 230	4, 085, 783
1852	2,650,134	1, 141, 822	3,791,956
1853	3,398,575	1,912,968	5, 311, 543
1854	4,693,771	2,572,383	7, 266, 154
1855	5,855,878	3, 229, 798	9, 085, 676
1856	7,519,909	626, 199	8, 146, 108
1857	6,911,405	776, 182	7,637,587
1858	5,975,494	646, 979	6, 622, 473
1859	8,329,960	883, 422	9, 213, 832
1860	7,502,839	1, 120, 375	8, 623, 214
1861	7, 133, 734	1, 250, 021	8, 383, 755
1862	7, 369, 905	866,706	8, 236, 611
1863	10, 198, 505	1, 183, 807	11, 382, 312

# Exports to both Canada and the Provinces, with the total of imports from both.

Fiscal year ending—	Domestic exports.	Foreign exports.	Total ex- ports.	Imports.
Sept. 30, 1821	\$2,009,336	<b>\$</b> 455	\$2,009,791	<b>\$490,7</b> 04
1822	. 1,881,273	16, 286	1,897,559	526, 817
1823	. 1, 818, 113	3, 347	1,821,460	463, 374
1824	. 1,773,107	2,617	1,775,724	<b>7</b> 05, 931
1825	. 2,538,224	1,740	2, 539, 964	610, 788
1826	. 2,564,165	24,384	<b>2,588,549</b> l	650, 310

# Exports to both Canada, &c .- Continued.

Fiscal year ending—	Domestic ex- ports.	Foreign ex- ports.	Total ex- ports.	Imports.
Sept. 30, 1827	\$2,797,014	\$33,660	\$2,830,674	\$445, 118
1828	1,618,288	56, 386	1,674,674	447,669
1829	2,724,104	40,805	2,764,909	577, 452
1830	3,650,031	136, 342	3,786,373	650, 303
1831	4,026,392	35, 446	4,061,838	864, 909
1832	3,569,302	45,083	3, 614, 385	1,229,526
1833	4, 390, 081	81,003	4, 471, 084	1,793, 393
1834	3,477,709	57,567	3, 535, 276	1,548,733
1835	3,900,545	147,343	4,047,888	1, 435, 168
1836	2, 456, 415	194,851	2,651,266	2, 427, 571
1837	2, 992, 474	296, 512	3, 288, 986	2, 359, 263
1838	2, 484, 987	238, 504	2,723,491	1,555,570
1839	3, 418, 770	144,684	3, 563, 454	2, 155, 146
1840	5, 895, 966	204, 035	6, 100, 001	2,007,767
1841	6, 292, 290	364, 273	6,656,563	1, 968, 187
1842	5, 950, 143	240, 166	6, 190, 309	1,762,001
fune 30, 1843	2,617,005	107, 417	2,724,423	857, 696
1844	5, 361, 186	1, 354, 717	6,715,903	1, 465, 71
1845	4, 844, 966	1,209,260	6,054,226	2,020,06
1846	6, 042, 666	1, 363, 767	7, 406, 433	1,937,717
1847	5, 819, 667	2, 165, 876	7, 985, 543	2, 343, 93
1848	6, 399, 959	1, 982, 696	8, 382, 655	3, 646, 46
1849	5, 932, 106	2, 172, 161	8, 104, 267	
1850	7,758,291	1,790,774		2,826,886
1851	9,060,387	2, 954, 536	9,549,035	5, 644, 469
1852	6,655,097	3, 853, 919	12,014,923	6,693,125
1853	7, 404, 087		10,509,016	6, 110, 29
1854	15, 204, 144	5,736,555	13, 140, 642	7,550,718
1855	15, 806, 642	9, 362, 716	24,556,860	8,927,560
1856		11,999,378	27, 806, 020	15, 136, 73
1857	22,714,697	6, 314, 652	29, 029, 349	21, 310, 42
	19, 936, 113	4, 326, 369	24, 262, 482	22, 124, 290
1858	19,638,959	4,012,768	23, 651, 727	15, 806, 519
1859	21,769,627	6, 384, 547	28, 154, 174	19, 727, 55
1860	18,667,429	4,038,899	22,706,328	23, 851, 38
1861	18, 883, 715	3,861,898	22,745,613	23, 062, 93
1862	18,652,012	2, 427, 103	21,079,115	19, 299, 99
1863	28, 629, 110	2,651,920	31, 281, 030	24, 025, 423

# Imports from Canada.

Year ending—		Free by reciprocity tre'ty.	Total free.	Paying duty.	Total imports.
June 30, 1850  1851  1852  1853  1854  1855  1856  1857  1858  1859  1860  1861  1862  1863	\$636, 454 1, 529, 685 761, 571 1, 179, 682 380, 041 760, 359 887, 972 868, 753 367, 450 1, 396, 377 2, 208, 374 1, 959, 393 730, 531 *5, 442, 968	\$6, 116, 137 15, 959, 850 16, 731, 984 10, 900, 168 12, 307, 371 16, 218, 767 16, 327, 824 14, 295, 562 12, 807, 354	\$636, 454 1, 529, 635 761, 571 1, 179, 682 380, 041 6, 876, 496 16, 487, 822 17, 600, 737 11, 267, 618 13, 703, 748 18, 247, 141 18, 287, 217 15, 026, 093 13, 250, 322	\$3, 649, 016 3, 426, 786 3, 628, 398 4, 098, 434 6, 341, 498 5, 305, 818 640, 375 601, 097 313, 953 504, 969 434, 532 358, 240 227, 059 567, 677	\$4, 285, 470 4, 956, 471 4, 589, 969 5, 278, 116 6, 721, 539 12, 182, 314 17, 488, 197 18, 291, 834 11, 581, 571 14, 208, 717 18, 861, 673 18, 645, 457 15, 253, 152 16, 816, 999

<sup>\*</sup>Of this amount the sum of \$4,892,195 in gold and silver coin was entered at Champlain.

# Imports from other British North American Provinces.

	Year ending—	Free by or- dinary laws.	Free by reciprocity treaty.	Total free.	Paying duty.	Total imports.
June	1851	\$151, 145 160, 267		\$151, 145 160, 367	\$1,207,847 1,576,284	\$1,358,992 1,736,650
	1852 1853	218,718 238,568		218,718 238,568	1,301,612 2,034,034	1,520,330 2,672,602
	1854	259, 102		259, 102	1,946,919	2,206,021
	1855 1856	146, 427 193, 639	\$1,081,200	1,227,627	1,726,793	2,954,420
	1857	147,589	3,447,236 3,548,226	3,640,875 3,695,815	181,349 136,647	3,822,224 3,832,462
	1858	195,082	3,852,087	4,047,169	177,779	4,224,948
	1859 1860	1,213,043 526,011	4,077,045	5, 290, 088 4, 753, 830	228,746 235,878	5,518,834 4,989,708
	1861	535,604	3,719,701	4, 255, 305	162, 171	4,417,476
	1862	887,654 1,839,605	2,806,990 2,958,209	3,744,644 4,797,814	302, 199 409, 610	4,046,843 5,207,424

## Total imports from Canada and the Provinces.

Year ending—	Free by or- dinary laws.	Free by reciprocity treaty.	Total free.	Paying duty.	Total imports.
June 30, 1850	\$787, 599 1, 690, 052 980, 289 9, 418, 250 639, 143 906, 786 1, 081, 611 1, 016, 342 562, 532 2, 609, 420 2, 734, 385 2, 494, 997 1, 618, 185 *7, 282, 573	\$7,197,337 19,407,086 20,280,210 14,752,255 16,384,416 20,446,586 20,047,525 17,152,552 15,765,563	\$787,599 1,690,052 980,289 1,418,250 639,143 8,104,123 20,488,697 21,296,552 15,314,787 18,933,836 23,180,971 22,542,522 18,770,737 23,048,136	\$4,856,863 5,003,070 5,130,010 6,132,468 8,288,417 7,032,611 821,724 827,744 491,732 733,715 670,411 529,258 977,287	\$5,644,462 6,693,122 6,110,299 7,550,718 8,927,560 15,136,734 21,310,421 22,124,296 15,806,519 19,727,551 23,851,381 23,062,933 19,299,995 24,025,423

<sup>\*</sup>Including \$6,555,485 of gold coin.

General table of imports into the United States from Canada, free of duty under the Reciprocity Treaty, for the half year to June 30, 1855, and the fiscal years 1855-186 to 1862-183 inclusive.

		1000	2001 01 00	1000- :00 to 1002- 00, inclusive	ve.					
Articles imported.	Half year to June 30, '55.	tme 30, '55.	1855-'56	35	1856-'57.	.57.	1857-58	<b>8</b> 5	1858-'59,	.39
Animais Ashee Bark Butter Cords Cheese Codd	Quantity. 119	Value. \$263, 611 22, 789 195 28, 517	Quantity. 575	Falue. \$1,380,255 82,388 1,410 212,136 1,099	Quantity.  1,864,188 32,380 117	\$1,723,806 . \$1,723,806 . 26,834 . 377,364 . 2,643	Quantity. 213 1, 770, 782 28, 562	\$1,310,122 153,053 153,053 274,372 2,375	Quantity.  2, 514, 293 20, 270	Falue. \$1, 128, 681 141, 859 370, 129 1, 559
Firewood cords Fish, pickled and other, in barrels Fish oil and other, by weight, ponnads Fish oil rot specified Fish and bemp, not specified	3,739 1,038 256,892 1,458	16. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	12, 908 6, 670 2, 081, 201 15, 970	20, 528 20, 864 41, 451 14, 883 2, 466	20,800 5,853 1,408,141 1,978	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	18,683 7,121 1,002,727 1,448 50,844	27, 28, 28, 765 63, 177 1, 569 160 9, 009	14, 613 4, 939 1, 293, 375 13, 881	දු <b>දු දැ</b> දැ දැන් දැන් වැන් දැන් වැන් වැන් වැන් වැන්
	1, 456, 778 286, 778	29, 971 2, 453, 801 2, 338, 900	3, 782, 459 435, 704 11, 175, 327	4, 610 65, 607 6, 239, 519 4, 003, 356 267, 289	3, 504, 260 1, 552, 411 2, 197, 603	4, 728 122, 648 5, 051, 858 4, 134, 814 1, 382, 358	2, 067, 813 547, 078 1, 492, 274	1, 293 51, 736 2, 113, 939 2, 643, 216 540, 982 249	1, 242, 431 788, 893 2, 501, 188	3, 803 1, 383, 363 2, 340, 966 2, 989, 823
Gypsum all other grains Hides and skins		1,519 8,310		572 149, 464		1, 430 474 202, 314		314 79, 583	COP (err	15, 453 151,071
Horns Lard pounds Lard pounds Mosts, cured, and all other pounds Ores of metals Pelts Poultry Poultry Rags Redix from and plants	112, 163 350 813, 873	8, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	3, 285 398, 343 26, 372 653, 246	1, 302 384 50, 379 19, 213 17, 992 16, 548	358, 431 787, 058 3, 231 574, 422	2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,	59, 705 515, 296 6, 289	7, 7, 518 22, 915 22, 915 27, 904 14, 775 25, 193	2, 780, 913 2, 733 387, 056	23,1,324 13,825 13,926 10,926 10,926
Slate and stone Tallow Trailow Trailow Trailow Trimber and lumber	1, 993	571, 727 175 1, 204 96, 618 51, 983	7, 227 68, 767 18, 780 1, 490, 697	9, 318, 177 1, 962 1, 962 2, 318, 177 2, 950 371, 395 33	45, 473 49, 775 26, 914 1, 230, 155	2, 813, 663 1, 828 1, 839 1, 838 1, 838 1, 638	4, 093 20, 430 5, 829 906, 513	2, 4.38 2, 4.38 2, 4.38 3, 4.48 9, 2.49 8, 2.40 8, 2.4	6, 514 20, 540 34, 258 8, 103, 406	2, 568 2, 544, 054 3, 568 3, 269 3, 269
Total		5,950,500		15, 927, 185		16, 456, 788		10, 475, 133		11, 444, 330

Entered as grain of all kinds, not distinguishing between wheet, cats, and barloy. In reality most of it is wheat, Champisin, and Ogdensburg as cats, and all other as wheat, by taking the totals at Vermont, Champisin, and Ogdensburg as cats, and all other as wheat, in this and subsequent years an estimate is made of cats, and characteristic for the contraction of the cont

General table of imports into the United States from Canada, free of daty under the reciprocity-freaty, &c.—Continued.

Articles imported.	1859-'60		1860-'61	.'61.	1861-'62	8	1862-'63	<b>8</b>
Animals Asibes Bate Asibes Bate Butter Concess	6, 200 1 1 913 3 2 2 1 1 913 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7 Z 4 4 4 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6-puenetity. 5, 976, 088 2, 976, 088 37 37 1, 621, 378 5, 101 1, 621, 378 5, 101 1, 824, 472 3, 654, 380 1, 307, 238 1, 307, 238 1, 307, 238	7. 724. 22. 22. 22. 22. 22. 22. 22. 22. 22.	Quantity.  3, 592, 321 121, 177 124, 893 1, 144, 893 1, 173 1, 173 3, 220, 633 3, 220, 633 48, 135 48, 135 49, 139 1, 202, 909 1, 202, 909 1, 202, 909 1, 202, 909 1, 202, 909 1, 202, 909 1, 203, 909 1, 203, 909 1, 203, 909	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Quantity. 2, 167, 658 25, 688 25, 688 31, 920 31, 920 31, 920 32, 927, 199 2, 927, 199 2, 927, 199 2, 927, 199 2, 927, 199 3,	14.26.26.26.26.26.26.26.26.26.26.26.26.26.
Miscellaneous Total						14, 293, 922		

General table of imports from the Provinces, other than Canada, free of duty under the reciprocity treaty.

A-Holes imperfed	1855-'56	26.	1856-'57,	.57.	1857-'58.	58.	1858-'59.	59.
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Animals Asha		<b>\$5</b> , 622		1,077		\$16, 904		\$8, 246
Berk. Thirteen and sheese	1,872	7, 224	1,23	4, 467	1,707	6,095	1,082	3,640
	120, 446	363, 671	133,218	396, 222	136, 733	387, 710	122, 718	372 154
	61, 760	193, 584	61, 741	182,090	45, 578	145,815	44, 828	137, 242
Fish, pickled. barrels. dry and other	223, 915	1, 294, 817	220, 211	1, 183, 700	227, 975 9. 443, 342	1, 194, 250 278, 678	273, 835 13, 951, 048	1, 304 380, 939 380, 939
	g	164, 463	8	272, 963	267, 611	159,038	<u>4</u>	309, 620
Ture		1, 495		3,048		3,692		1,751
		1,834		6, 593		6, 516		3, 995
Grain, (nearly all oats)Barley	68,077	31, 647	269, 830	111, 793	217, 608	96, 356 86, 356	789, 848	351, 109
		827	337	1,150	5, 551	680 f	385	382
Grindstones		50, 839 47, 047		20, 821		10,287		10, 404
Hides and skins.		68, 148		91, 481		41,918		25
Horns Meats, (all kinds).	53, 732	3,347	41.132	1, 439 3, 860	34.639	9 9 000 800	18, 191	1,391
Ores of metalstons	98	396	95	787	. 61	511	962	16,834
Poultry		300		, re.		218		134
Reads and tracs	351, 911	7,986	238, 795	5,760	205, 488	5, 214	116, 637	1,894
Stone, unwrought.		18,631		53, 195		60,450		4,38
Timper and lumber	395, 911	187, 331	556, 926	337,052	935, 890	543, 50 <b>6</b>	952, 611	397, 212
Wheet form							:	
	11,754	2,999	14, 785	3,414	18,240	3,756	21,868	4, 562
ANOT BELLEVILLE BARGE		ema		103		217		****
Total		3, 456, 270		3, 522, 473		3, 655, 432		4, 010, 874

General table of imports from the provinces other than Canada, &c.—Continued.

A A de la constant and la	185	1859-'60.	1860	1860-'61.	1861	1861–'62.	1862-'63	ක්
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Animals		\$5,891		\$6, 605		\$1,530		<b>\$4,</b> 452
Asing Bark	6	10.048	1.610	5,819	198	1 725	166	3.79
	_	5,711	21,089	7.39		1,779	18,049	, e,
	149,	497, 359	204, 430	702, 165	192, 544	614, 041	282, 767	757, 048
		8		38, 557		82,820		14,60
	<b>9</b>	110, 122	86.68	162, 877	45,617	110,745	88.68	86.5
	:	1, 500, 543	197, 201	915, 377	177, 938	200, 300	127, 200	476,91
ary and otherpounds	6	200, 101	11, 900, 003	204, 705	90,000	101, 316	921, 333	115, 70
		956 417	100 (117)	205, 203	770	10,01	מחא ימחא	1000
Fore		0,730		132	:	136,20		in ber
Fruits green and dry		3,75		1,370		5,5		4
Grain, (nearly all oats).	1,067,654	384, 221	445,000	192, 274		150,341	110,638	308
Burley					9,272	5,854	17,645	14, 24
Meal, (ostmeal)cwt	t 1,146.	2,866	405	78		624	ZZ.	1,98
Grindstones		58,057		50,620		21, 892		46, 715
Gypaum		2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		86.8		34,846		20,57
Lides and skins	<u> </u>	200,70		27, 380		26.		8
	:			3		<b>E</b>		3
	8		33, 523	1,751	10, 531	0.50	200.45	8
Ores of metalstons	<u>:</u>	3,000	<b>3</b> 5	1,879	8	149	25	8
Tells	<u> </u>			to, or		33.		5,47
	262 000	0/3	790 000	202	200	142	AND AND	5
Knode and tense	3	, co	- 100 tone	3.6	3,5	250	100,000	11, 10,
Other management		2 2 2		200		1, 5		10
Dune, unwiquent		40 600		3,50		24, 013		10, 70
	<u>:</u>	30.00	500 600	489, 171		10', or		271, UN
Tegritables	3	77, 176	36, 68	200, 014		100, 100		111,92
			006	20.40			9	20
West nominated to the second s		600	1, 520	25	701 16	000	210	
Not an amount of	the state of	35	010 1/1	2	or, ro	9	110 /2/	8
AND CHAMBER & COLUMN STATE OF THE STATE OF T		81		375		3		Č.
•								
Totals		4, 161, 606		3, 728, 419		2, 857, 582		2, 988, 499
		and leave to		The state of				

# Imports from Canada paying duty, from 1855-'56 to 1862-'63.

	1855	5–'56.	1856	3-'57.	1857	7–'58.	1856	<b>-</b> '59.
Articles imported.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Iron, pig tons railroad do bar, sheet, chains, &c manufactures, not specified		\$23, 695 388, 687 18, 865 7, 652	467 10, 597	\$10, 293 443, 530 2, 892 14, 148	661 1, 813	\$12, 324 115, 162 2, 986 16, 293	388 5, 852	\$5, 783 209, 672 2, 258 19, 883
Steel and steel manufactures, cutlery, and arms. Old iron tons. Woollen manufactures Cotton manufactures	2,008	1, 379 25, 475 5, 677 2, 491		357 22, 882 4, 600 3, 322	2, 358	765 25, 187 4, 556 1, 444	6,752	2, 951 63, 671 7, 204 2, 220
Silk manufactures Linens: flux and hemp manufactures Laces, buttons, and cloth shoes Straw bonnets, hats, &c.		1, 271 2, 688 138 5, 262		1,763 915 92 7,622		683 454 787 4,531		1, 225 830 1, 518 7, 712
India-rubber, and manufactures of Clothing Furs Boots and shoes, leather Leather, and all other manufactures of		1, 627 631		2, 913 2, 725		701		5, 084 1, 310 1, 090 696 8, 246
Hair manufactures and brushes Books Engravings and photographs Paper and manufactures of paper		1,661 123 29		466 6, 482 45 982		133 4, 697 219 214		554 3, 560 14, 193 593
Musical instruments. Watches, jewelry, gold and silver manufactures China and plated ware. Glasswares		157 622 7, 108 680		1, 062 355 2, 478 1, 027		1, 065 535 869- 158		1,705 14,944 948
Tin, lead, and zinc manufactures Copper and brass manufactures. Wood manufactures, and wood not specified. Drugs, dyes, and spices		753 853 41, 896 1, 396		2, 346 3, 374 27, 575 455		626 137 21, 980 511		505 132 36, 650 972
Oils, palm and other foreign gallons fish and petroleum do Source, and manufactures of Salt bushels	420 202, 875	587 623 39, 056	120 191, 298	122 647 36, 909	678 69 128, 258	692 175 329 20, 878	4, 133 95, 170	3, 146 395 15, 231
Wines         gallons           Brandy         do           Spirits         do           Beer and ale         do           Tea         pounds	11, 187 4, 626 2, 718	7, 552 8, 522 1, 651 7, 116	1, 055 5, 040 1, 330 24, 365 4, 726	1, 438 9, 161 686 5, 689 587	1, 534 5, 490 4, 747 25, 514 40	2, 188 13, 973 4, 011 5, 476 28	2, 543 8, 760 7, 512 35, 472	4, 365 18, 579 3, 588 7, 058 204
Coffee         do           Sugar         do           Coul         tons           Wool         pounds	113 45, 170 174	12 1, 405 623 2, 405	3, 543 62, 279 401 30	354 3, 044 883 5	14, 228 411	976 728	537 90, 228 1, 605	4, 974 3, 225
All other articles		21, 610 640, 375		33, 437 691, 097		41, 434 313, 953	· · · · · · · ·	29, <b>456</b> 504, 9 <b>69</b>

# Imports from Canada paying duty, &c.—Continued.

	1859	-'6Ó.	1860	)-'61 <b>.</b>	1861	-'62.	1862	-'63.
Articles imported.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Iron, pig tons. railroad do bar, sheet, chains, &c manufactures not specified. Steel and steel manufactures, cutlery,	580 4,665	\$7, 996 170, 665 4, 420 34, 607	1,076 507	\$14, 791 14, 244 2, 597 12, 736	173	\$2, 942 5, 291 5, 122	40 269	\$780 14, 215 10, 467 6, 283
and arms. Old iron tons. Woollen manufactures. Cotton manufactures Silk manufactures	42, 115	2, 665 29, 758 4, 402 988 2, 338	1,711	9, 435 21, 168 5, 552 2, 182 1, 815	995	2, 648 18, 206 10, 806 20, 461 328	2, 483	5, 325 46, 322 16, 890 60, 379 2, 758

Imports from Canada	paying	duty,	ac.—Continued.
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	1859	<b>⊢'60.</b>	1860	<b>⊢'61.</b>	1861	-'62.	1862	-'63.
Articles imported.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Linens: flax and hemp manufactures		\$1,857		\$2,444		\$2,318		\$18, 777
Luces, buttons, and cloth shoes		460	- <b></b> -	266				49
Straw bonnets, hats, &c		3, 728		6, 791		2, 493		4, 190
India-rubber, and manufactures of		11, 113		58, 378		27, 912		13, 303
Clothing	· • • • • • • • • • • • • • • • • • • •	923		749		2, 105 538		2, 156 938
Furs		1,724	· · · · · · · ·	683 1, 260		<b>338</b>		900
Boots and shoes, leather		2, 238 5, 092		1,260		3,908		13, 783
Leather, and all other manufactures of . Hair manufactures and brushes	· • • • • • • • • • • • • • • • • • • •	317	·····	308		3,908		2, 215
		3. 242	·	3,732		3, 806		6, 292
Books Engravings and photographs		492		668		56		0, 252
Paper and manufactures of paper		478		60		216		, 235
Musical instruments		280		790		~10		,
Watches, jewelry, gold and silver		, <i>*</i>		130				
manufactures	l	7, 255	ł	655		656	•	824
China and plated wares		13, 300		11, 631				26, 409
Glasswares		450		374		992		616
Tin, lead, and zinc manufactures				1,692		1, 113		7. 916
Copper and brass manufactures		174	1	470		3, 690		4, 872
Wood manufactures, and wood not	i	1		1		.,,		_, _,
specified	1	48, 212		24, 407		19, 340		19, 202
specified		89		108		1, 619		518
Oils, palm and other foreign gallons	3, 549	3, 240	187	*2.119	534	1, 129	721	876
fish and petroleumdo	4, 957	4, 570	7,059	5, 895	8,999	7,042	9, 282	2,056
Tobacco, and manufactures of	_,,	974		520		68		81
Saltbushels	68, 102	9,026	228, 290	32, 101	158, 841	19,865	198, 464	37, 415
Wines gallons		4, 689	1,980	2,067	1,753	1, 950	1, 239	2, 206
Brandydo	6, 435	12, 252	3,817	7, 297	1,600	3,923	1,798	4,516
Spirits	5,680	4, 036	8,641	4,388	4,764	3, 352	1,800	1, 454
Beer and ale do	40, 108	1, 115	11,582	2, 436	1,817	852	1,685	872
Molassesdo		117	1		8,300	1, 123		
Tea pounds	451	108	1,256	517	1,742	801	12, 241	8,081
Coffee do							10	
Sugardo	26, 169	1,315	39, 290	1,951	25, 700	1, 357	77, 343	3, 719
Coaltons.,	448	1,017	808	3, 678	271	639	93	590
Coal tons., Wool pounds.	• • • • • • •		309, 039	61, 732	51	18	<b>37,</b> 779	15, 425
All other articles		33, 490		32,075		29, 452		71, 956
Total		434, 532		358, 240		227, 059		425, 135

<sup>\*</sup> Of this value \$1,819 is essential oil.

† Of this, 15,069 pounds, \$1,053, is wool waste.

### ANALYSIS OF THE FOREGOING TABLES.

The first general tables given above show an average export trade to Canada of \$16,826,797 for eight fiscal years following the enactment of the reciprocity treaty, of which \$13,493,739 was the value of domestic produce, and \$3,333,058 was the value of foreign goods. There is no marked increase in the exports at the beginning of this period of eight years, the total for 1854 being above the average of the succeeding years, including an unusual export of \$3,500,000 of gold coin in 1863. The average for the last four years is \$12,933,000 in value of domestic produce exported, against an average of \$14,300,000 for the four previous years, which were the first of the full operation of the treaty. The general volume of domestic export trade to Canada has, therefore, declined under its operation.

The foreign exports show a marked decline during the eight years, falling off from \$6,790,333 in 1854, and \$8,769,580 in 1855, to \$1,560,397 in 1862, and \$1,468,113 in 1863. It is obvious that the Canadian supply of foreign goods is no longer purchased in the importing cities of the United States, as before the

treaty; and the statistics of goods entering Canada, through the United States, under bond, show that to be the mode of receipt substituted for the former. These bonded goods nearly all enter at Portland, and pass over the railroads

through Vermont.

Of the exports to Canada, both domestic produce and foreign merchandise, the United States records give no distinction as to those which pay duty and those received free of duty; but the Canadian official tables show that for eight calendar years to 1862, an average of \$9,335,865 of these exports paid duty, while an average of \$10,720,000 was admitted free of duty. As the record in this case is for calendar years, the annual values cannot be exactly compared with those made up for our fiscal years. The Canadian values are larger generally—a fact to be accounted for by their more rigid inspection of imports than ours of exports, and by the valuation they make of "settlers' goods," "vehicles in use," and a large class of personal effects not usually cleared at our custom-houses.

The imports from Canada show an average value of \$16,643,825 for the last eight fiscal years, of which an average of \$467,238 only paid duty on entering the United States. The average sum of \$16,176,337 entered free of duty, of which \$14,443,000 was under the reciprocity treaty, and \$1,732,725 was free under other laws. The following are the values admitted free to each country, respectively, contrasted for each year:

-	•		•	$\sim$	-
Pa	บาทฅ	duty	222	Can	ada.

Paying duty in Canada.	
Calendar years.	Amount.
1855	\$11,449,472
1856	12,770,923
1857	9,966,430
1858	8,473,607
1859	9,032,861
1860	8,526,230
1861	8,338,620
1862	6,128,783
1863	3,974,396
Average of 8 years	8,401,481
Paying duty in the United States.  Fiscal years.	Amount.
1854–'55	<b>\$</b> 5,305,81 <b>8</b>
1855–'56	640,375
1856–'57	691,097
1857–'58	313,953
1858–'59	504,969
1859–'60	434,532
1860–'61	358,240
1861–'62	227,059
1862–'63	567,677
Average of 8 years	467,238

Under the reciprocity treaty, therefore, duty is paid on goods of the United States entering Canada of the average annual value of \$7,934,241 more than the values of duty-paying goods entering the United States from Canada.

The respective values made free by the reciprocity treaty were, from 1856 to 1861, nearly twice as great from Canada, or of Canadian produce, as from the United States, or of United States produce. In 1862 and 1863, in consequence of the enormous increase in the shipments of wheat, flour, and grain nominally to Canada, but really through Canada to other markets, the values became nearly equal.

### Reciprocity imports into Canada from the United States.

Calendar years.	Amount.
1856	\$8,082,820
1857	8,642,044
1858	5,564,615
1859	7,106,116
1860	7,069,098
<b>1</b> 861	9,980,937
1862	14,430,626
1863	12,339,367
Total, 8 years	73,215,623

### Reciprocity imports into the United States from Canada.

Fiscal years.	Amount.
1855-'56	\$15,959,850
1856–'57	16,731,984
1857–'58	
1858–'59	12,307,371
1859–'60	16,218,767
1860–'61	16,327,824
1861–'62	14,295,562
1862–'63	12,807,354
Total, 8 years	115,548,880
,	

The treaty has, therefore, released from duty a total sum of \$42,333,257 in value of goods of Canada more than of goods the produce of the United States. The decline in value of American and foreign goods paying duty on entering Canada from the United States, in 1862 and 1863, is due to the decline of trade in all fabrics and manufactures, not to any change in the proportions of free and dutiable, through which our exports are relieved from taxation.

# CANADIAN OFFICIAL STATISTICS, WITH DETAILED TABLES OF EXPORTS TO CANADA.

As the distinction between goods entering Canada free and dutiable cannot be derived from the United States returns, the following table is limited to three years, and the Canadian statistics are taken complete for the illustration of that side of the trade. These tables are very full and valuable, furnishing a clear illustration of the character of that trade as it enters Canadian markets.

The Canadian tables that here follow are general tables corresponding to those before given from United States records, and these, with various tables cited elsewhere, are all taken from the annual volumes on the Trade and Navigation of Canada, published by that government.

Statement of the value of the imports into Canada from the United States for 14 years, from 1850 to 1863 inclusive, with amount of duties paid.

#### [From Canadian official reports.]

Calendar years.	Value of free goods.	Value of duty-paying goods.	Total imports.	Amount of duties paid.	Rate per cent.
1850	\$791,128 1,384,030 864,690 1,125,565 2,083,757 9,379,204 9,933,856 10,258,221 7,161,958 8,560,055 8,746,799 12,730,768 19,044,374	\$5,803,732 6,981,735 7,613,003 10,656,582 13,449,341 11,449,472 12,770,923 9,966,430 8,473,607 9,032,861 8,526,230 8,338,620 6,128,783 3,974,396	\$6,594,860 8,365,765 8,477,693 11,787,147 15,533,098 20,828,676 22,704,509 20,224,651 15,635,565 17,592,916 17,273,029 21,069,388 25,173,157 23,109,362	\$1,069,814 1,274,762 1,433,195 1,805,812 2,209,173 1,786,032 2,059,826 1,605,64 1,611,711 1,825,135 1,759,928 1,584,892	

Of the value of free goods here stated, there was of coin and bullion the following sums:

In 1861	 <b></b>
1862	 2,530,297
1863	 4.651.679

The values exported, as reported in the United States records, are elsewhere stated for fiscal years, and therefore not directly comparable with these, which are from Canadian reports.

Statement of the value of the exports from Canada to the United States, and the total trade.

#### [From Canadian official reports.]

Calendar years.	Exports	Imports	Amount
	to United	from United	of the
	States.	States.	whole trade.
1851 1852 1853 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862	8, 936, 380 8, 649, 000 16, 737, 276 17, 979, 752	\$8,365,764 8,477,693 11,782,144 15,533,096 20,828,676 22,704,508 20,224,648 15,635,565 17,592,916 17,273,029 21,069,382 25,173,157 23,109,362	\$12, 437, 308 14, 762, 213 20, 718, 524 24, 182, 096 37, 565, 952 40, 684, 266 33, 431, 084 27, 565, 669 31, 515, 230 35, 700, 997 35, 455, 915 40, 236, 887 45, 643, 436

Imports into Canada from the United States, 1855 to 1863, free of duty under the reciprocity treaty. (Prepared from official documents of Canada.)

Antidas impositos	18	55.	18:	5 <b>6.</b>	185	7.
Articles imported.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Animalsnumber.	7, 470	\$207, 596	16, 700	\$473, 897	19, 530	\$456,029
Ashes		2,939	. <b></b>	7, 197		18, 128
Barkcords.		3, 268	608	2, 205	1,299	5, 50
Broom-corn		28, 191		39, 303		32, 87
Burr and grindstonespounds	147, 840	21, 190 25, 799	257, 600	17, 807 44, 967	218, 848	16, 66 39, 89
Cheesedo	1, 064, 000	103, 983	1, 545, 600	153, 660	1, 629, 600	152, 26
Coal tons.		326, 512	84,000	385, 361	94, 816	400, 29
Cotton, raw		15, 803	0.,000	17, 534		3, 51
Dyestuffs		18, 595		25, 814		16, 62
Eggs		1,829				18, 57
Fich		109, 478	••••••	152, 531		120, 61
oflgallons.	204, 155	148, 105	283, 158	249, 191	199, 299	193, 57
products of		4, 271 30, 984	24,717	290 <b>60</b> , 462	31,472	64. 21
Fruit, dried		12, 591	23, 111	46,062	31, 712	32, 09
not dried		140, 925		137, 584		157, 24
not dried		200,000		20.,002		,
factured		<b>6</b> 9, 1 <b>7</b> 0		81, 083		75, 42
Flour barrels	198, 210	1, 615, 746	138, 100	797, 281	212, 640	1, 251, 03
Furs, skins and tails, not dressed		27,690	1	54, 829		28, 82
Grain, all kindsbushels. Gvosum		2,711,952	3, 453, 211	2, 703, 503	3, 726, 816	3, 230, 73
Hides and pelts		12,054 60,000		6, 243 80, 000		7, 89 100, 00
Lardpounds.		91, 538		142, 132		58.74
Mannres		11.994		11, 100		16.43
Meal barrels .	8,600	40,094	9,900	36, 715	14, 200	52, 69
Meal barrels		1,019,714	158, 800	1, 417, 771	90, 327	903, 26
Ores of metals		436		5, 952		11,92
Pitch and tarbarrels.		10, 457		7,859	2, 353	8, 26
Plants and shrubs Poultry		37,807 1,739		63, 359 6, 941		51, 14
Poss		1, 201		871		8, 04 3, 93
Rice	843 696	42, 475	929, 600	40, 171	621,600	22, 15
Ragspoundspounds		121, 128	0.00,	67, 705		123, 41
Siste		29, 594		20,002		17, 19
St ne and marbleunwrought.		57, 145		<b>6</b> 3, <b>7</b> 91		72, 25
Tallowpounds.				<b>355</b> , 521	3, 578, 680	357, 57
Timber and lumber		108, 414	536, 138	133, 687	050 000	226, 88
Todacco, unmanulacturedlds.	719, 632	69,779 2,892	330, 138	106, 960 28	959, 896	120, 13
Tobacco unmanufacturedlbs Turpentine Vogetables		11,735		34.059		65, 90
Wool		7, 659		20, 821		40,06
Free by reciprocity treaty		7, 725, 572		8, 082, 820		8, 642, 04
Specie and bullion	1	l. <b></b>				*
All other free goods †		1, 653, 632		1, 850, 766		1, 616, 17
Total free of duty		9, 379, 204		9, 933, 586		10, 258, 22

# Imports into Canada from the United States, &c .- Continued.

Articles imported.	185	<b>.</b>	185	9.	1860.	
An actos importon	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Animalsnumber.	10, 170	\$240, 186	10, 487	\$234,677	14, 923	<b>\$</b> 239, 09 <b>4</b>
Bark cords. Broom-corn	525	23, 369 2, 117 30, 872	600	12, 826 2, 570 30, 301	528	21, 642 2, 130 63, 404
Burr and grindstones		13, 528		14, 383		15, 499
Butterpounds.	43, 420	7,037	246, 719	40, 335	175, 392	29, 422
Cheesedo	1,091,672	90, 045	791, 410	93, 499	742,000	82, 959
Coaltons	70,097	242,700	78, 557	237, 776	79, 886	304, 079
Cotton, raw		11, 238		17, 207		25, 627
Dycetuffs	ll	28, 545		52, 209	ll	43, 408

<sup>\*</sup> Specie not distinguished until after 1857.
†An average value of \$500,000 annually, is of articles of foreign origin.

# Imports into Canada from the United States, &c .- Continued.

A material construction of	18	58.	18	59.	186	0.
Articles imported.	Quantity. Value.		Quantity.	Value.	Quantity.	Value.
Eggs		\$2,487		\$1,893		\$L 073
Fish		78, 030		108, 884		139, 413
oilgallons.	95, 000	78, 936 708	129, 983	73, 098	172, 000	86, 071 553
Firewoodcords. Fruit, dried	24, 605	47, 657 29, 922	19, 803	40, 810 35, 414	21, 307	38, 75 43, 19
not dried		89, 071		215, 609		241, 33
Flax, hemp, and tow, not manu-		46, 372	1	57, 301		87, 10
facturedbarrels.	192, 250	750, 580	387, 062	2, 090, 683	167, 038	856, 074
Furs, skins and tails, not dressed.		37, 568		114, 532		104,65
Grain, all kindsbushels. Gypsum	3, 031, 725	2, 078, 464	1, 790, 835	1, 709, 077 11, 763	3, 439, 963	2, 895, 53
Hides and pelts		5, 337 125, 000		250,000		9, 76 220, 00
Lardpounds.	347, 963	41, 209	275, 205	33, 049	216,332	22, 72
Manures	l	12, 134	<b></b>	12, 721		9, 59
Meal barrels .	6, 492	21,064	33, 964	125, 902	7, 250	24, 78
Meat of all kindscwt.	93, 600	544, 366	<b>6</b> 6, 730	601, 451	54, 152	566, 99
Ores of metalsbarrels.		9,038		2, 389	4 000	11,02
Pitch and tarbarreis.	2, 308	6, 204 22, 647	3, 345	8, 472 24, 423	4,370	10,07 37,25
Poultry		1,582		1,054		4.07
Rags		943		3, 872		5.95
Ricepounds.	482, 160	18, 142	600, 254	18, 562	200, 480	8,02
		78, 356		82, 111		141, 89
Slate		15, 830	<b>-</b>	12, 763		3,70
tone and marbleunwrought.		51, 469		49, 065		62, 62
Tallowpounds.	3, 999, 904	401, 860	2, 976, 216	309, 039	3, 362, 216	329, 50
Fimber and lumber	1 200 074	115, 231 135, 025	1, 964, 488	97, 435 146, 974	1, 987, 433	64, 78 124, 11
Furpentine	1, 350, 074	31	1, 904, 400	140, 974	1, 907, 433	1224, 114
Vogetables		18,614		66, 109		11.36
Wool		11, 101		66, 175		79, 82
Free by reciprocity treaty		5, 564, 615		7, 106, 116		7, 069. 096
Specie and bullion	,	15		450.000		14.444
All other free goods*		1, 597, 328		1, 453, 939		1, 663, 257
Total free of duty		7, 161, 958		8, 560, 055		8, 746, 799

# Imports into Canada from the United States, &c.—Continued.

Articles imported.	18	61.	18	62.	186	3.
Articles imported.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Animalsnumber.	19, 800	\$333, 519 30 042		\$347, 936 24, 477	35, 300	\$590, 873.5 17, 5-49
Barkcords. Broom-corn		3, 693 50, 887	1, 010	4, 113 32, 299	1, 650	6, 670 34 987
Burr and grindstones	541,854	16, 199 68, 545 177, 776	815, 500 1, 937, 010	15, 088 104, 082 174, 456	644, 547 2, 907, 680	13, 793 97, 171 294, 327
Coaltons	171, 561	458, 665 55, 406	105, 905	437, 391 56, 460	103, 547	5485 . 846 243 . 928
Dyestuffs Eggs Fish		1, 156		60, 976 1, 259 158, 415		4.654 106 570
oil gallons products of cords.		65, 061 127	226, 450	109, 630	125, 345	1153, 203
Fruit, driedcords.		57, 012 64, 932 244, 924		47, 232 61, 113 370, 511	19, 384	36,599 71,945 379,170
Flax, hemp, and tow, not manu- factured		75, 416		106, 666		75, 464 8963, 029
Flour barrels. Furs, skins and tails, not dressed. Grain, all kinds bushels.		701, 713 103, 295 5, 408, 183	239, 130 10, 998, 720	1, 088, 679 119, 896 7, 876, 919	235, 439 6, 122, 692	610
Gypsum						13, 829

<sup>\*</sup>An average value of \$500,000 annually, is of articles of foreign origin.

### Imports into Canada from the United States, &c .- Continued.

February seletted	18	51.	18	<b>52.</b>	186	3,
Articles imported.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
lides and pelts		\$230,000		\$350,000		\$384, 9
ardpounds.	152,918	14, 881	582, 200	53, 381		81.7
fanures		7,512	l	9, 618	l	7,8
feal barrels .	6, 664	17, 114	21,085	44, 563	10,000	28,6
feat of all kinds	52, 320	500, 991	137, 270	1, 040, 269	182, 850	1, 228, 9
res of metals		5, 021		12, 516	. <b></b>	12,5
itch and tarbarrels.	2,930	8, 639	3,006	13, 925	2,863	11,1
lants and shrubs		63, 561		93, 665	l	93, 5
oultry		2, 214		3,852	l	4,6
tees		10, 793		8, 991		11,3
ticepounds.	156,010	5, 259	98, 560	2,746	1	
leeds		108, 155		80, 548	2,044	87, 5
Nate		5,058		1,819		1,9
tone and marbleunwrought.		69, 858		43, 267		57,0
allowpounds.	3, 045, 122	242, 474	1, 445, 000	129, 516	1, 668, 831	152, 2
limber and lumber		171, 232		91,772	1	62, 5
Cobacco, unmanufacturedlbs.		163, 549	6, 369, 840	842, 364	8, 769, 224	1, 327, 8
urnentine	l	59				l ' '
Vegetables Wool		28,807		61,218		47,7
Wool		197, 895		333, 570		208, 8
ree by reciprocity treaty		9, 980, 937		14, 430, 626		12, 339, 3
pecie and bullion		863, 308	1	2, 530, 297		4, 651, 6
di other free goods*		1, 878, 510		2, 083, 451		2, 143, 9
Total free of duty		12, 722, 755		19, 044, 374		19, 134,

<sup>\*</sup>An average value of \$500,000 annually is of articles of foreign origin.

# Exports, the produce and manufactures of the United States. to Canada for three years, 1860-'61 to 1862-'63.

A de la constanta	1860-	-'61.	1861-	·62.	1862-	·63.
Articles exported.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Animals: horses and mulesnumber.	215	\$17, 967	253	\$23, 131	329	\$27, 144
	153	3, 991	1, 103	22, 788	1, 100	41, 252
cattledo	103	20		13, 502	8, 466	89, 976
hogsdo	- 4	2,650	1,000	1, 753	0, 400	1, 432
sheep	00 610		37, 863	88, 717	77, 839	127, 458
Applesbarrels.	29, 610	48, 011 1, 574		10, 701		8, 771
Ashescwt.	311	1.764	2,041	10, 497	1, 260	10, 306
Bark, oak	77.0		374		194	2, 310
Beefbarrels.	116	1,718		3, 729 1, 656		22, 832
Beer and alegallons.		2,733	12, 445	62, 838	99, 363	
Books		106, 324				35, 164
Bricks, lime, and cement		_ 6,561	*********	26, 205		32, 380
Butterpounds		8,847	543, 585	71, 472		78, 718
Cables and cordageewt.	2,474	30, 178	869	11, 994	602	8, 653
Candles pounds.	45, 552	6, 133	20, 075	3,009		1, 269
Carriages	********	11, 117	********	35, 054		11,501
Cheese pounds.	383, 767	37, 945		86, 870		55, 394
Clover seedbushels.	2, 645	10,013		5, 738		16, 847
Coaltons.	73, 242	253, 054	98, 846	371, 001		400, 86
Copper and brass manufactures	********	16, 909	*********	32, 238		50, 874
Cotton, rawpounds.		13, 214		11, 712		66, 920
Cotton manufactures		403, 591		246, 442		64, 490
Drugs and medicines						110, 546
Earthenware	********	12, 347		12, 147		8, 244
Fish, dryewt	5, 665	26, 817		20, 819		32, 349
		5, 856		5, 127		7, 735
Fire-engines	*********	1,965		2,700		3, 000
Plaxseed Dushels.			*******		4, 150	6, 22
Furs				35, 774		38, 375
Glassware		83, 950		121, 381		87, 03
Gold and silver coin				225, 300		3, 502, 18
Gunpowderpounds.	2, 029			3, 615		1, 32
Hams and bacondo	50, 170			19, 828		63, 57
Hats, wool and fur	*******	79, 016		49, 503		14, 07
Hemptons.	130	8, 608	97	5, 02	140	14, 95

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Exports, the produce and manufacture of the United States, &c.—Continued.

Autolog generated	1860	0-'61.	1861	-'62.	1862	9-'63.
Articles exported.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Hemp manufactures, not specified		\$13,486		\$4, 384	700	<b>#1</b> 010
Hides		179, 691		187, 636		\$1, 912 129, 936
Hopspounds.	60, 350					
House furniture	00, 100	124, 250	101,500	188, 829	01,012	66, 718
India-rubber manufactures		10, 158		1, 151		528
Indian cornbushels.	1, 891, 740	810, 346		1,010,243	4, 211, 897	1, 622, 825
Indian mealbarrels.	2, 385		3,964	10,974	9, 474	25, 521
fron, pigtons.	481	20, 289	1,270		719	19, 797
bardo	166		403		148	9,063
castingsdo	300	31, 654	214	18, 121	329	18, 328
nailspounds.	193, 559	8, 494	216, 255	8, 380	126, 424	6,076
manufactures, not specified		790, 751		723, 829		362, 448
Jewelry		12,954		11,046		5, 044
Lardpounds.		4, 486	763, 032	70, 799	403, 375	40, 572
oilgallons.	2, 032		2,377	1,771	7,406	6, 648
Leadpounds.				2, 732	29, 600	2, 473
Leather	97, 898				163, 706	60, 487
boots and shoespairs.		106, 648	73, 991	66, 770	21, 965	
morocco leather		*********		1, 295		4, 611
Marble and stone manufactures		97, 977		97, 002		48, 293
Musical instruments	*********	122, 800		100, 907		67, 445
Oil-cake	*********	**********		4,000	*******	9, 340
Oil, linseedgallons.	14, 232		2, 327	1,676	1,848	1,767
whale and fishdo			104, 161	98, 252	59, 412	
Onions		945		595		2, 733
Paints and varnish		39, 903		39, 646		30, 094
Paper and stationerybarrels.	10 541	74, 272	F1 410	72, 376	F4 100	55, 171
Potatoes bushels	10, 541	165, 745 614		559, 184	54, 162	
Printing materials		5, 534		7, 373 4, 259	14, 041	6, 766
Ricebarrels.	217	3, 858	103	2, 438		1, 260
Rosin, tar, pitch, and turpentinedo	12, 459		5, 794	28, 800	1,992	
Rye and small grain	1.0, 105	40, 670	0, 104	57, 365	1, 552	119, 780
Saltbushels.	471, 722		356, 489	214, 682	533, 919	257, 136
Soap pounds.	30,809		23, 499	1,574	13, 696	1, 159
Spirits, from grain, &c gallons.	21,666		30, 633	7,576	11, 167	6, 726
Spirits of turpentinedo	4,825		2, 924	3, 479	310	545
Sugarpounds.	2,491,564	241,010		85, 063	198, 180	16, 449
Molasses gallons .	61,520		32,910	15, 179	13, 203	4, 712
Pallowpounds.	956, 612			144,062	1,040,767	103, 338
Pobacco, not manufacturedhogsheads.	1,375	50, 469	1, 204	75, 331	5, 401	582, 600
snuffpounds.	17,628	7,003	12, 356	3, 924	13, 587	3, 074
manufactured	2,435,520	683, 875	577, 755	203, 681	225, 081	76, 026
Vinegargallons.	10,689	1,816	14, 741	2, 321	14, 905	2,002
Wax pounds.	50	15	3,000	1,317	7, 960	1, 135
Wheatbushels.	4, 148, 029					6, 717, 093
Wheat flourbarrels.	83, 617	444, 803	118, 643	536, 756	232, 160	1, 103, 171
Woolpounds.	221,700		411,042	138, 958	185, 492	85, 595
Wood manufactures		36, 593		49, 061		58, 302
lumber and timber		35, 544				65, 808
All other articles		1, 090, 156		652, 848		800, 005
Total		11, 749, 981		11, 282, 107		18, 430, 605

The detail of imports from Canada which pay duty during the period of the reciprocity treaty shows that very few of such imports are the produce or manufacture of Canada originally. The chief articles are iron, salt, foreign spirits and wines, beer and ale, and foreign dry goods. It is not easy to identify any item of consequence produced in Canada, other than "manufactures of wood," which is an item made up of local products in part, at least.

The detail of imports free by ordinary laws exhibits a very irregular trade of this sort. The chief values are of articles of the United States brought back, personal effects, and unusual movements of coin and bullion.

Articles.	1855–'56.	1856-'57.	1857-'58.	1858-'59.	1859-'60.	1860-'61.	1861-'62.	1862-'63.
Produce of the United	<b>8</b> 549, 734	\$460, 621	\$93, 248	\$430, 129	<b>\$736, 659</b>	\$1, 418, 258	\$430, 687	\$173, 888
States returned Personal effects	282, 574	339, 979	232, 858	265, 187	271, 663	194, 430	220, 433	271, 085
Animals, living,	3, 040	1,070	4,672	600, 904 9, 000	1, 142, 717	305, 919	2,612	965
Coin and bullion Seeds and trees	40,088	65, 313	28, 042	45, 890	27, 695	20, 171	4, 156 39, 675	4; 792, 195 53
Copper ore	5, 804 3, 358	553	1, 733	2, 320	2, 330	2,648		
Paintings	2,000	393	40	500	743	400		
Shingle and slate bolts.  Produce of American			3, 449	10,094	14, 481	10, 686	6, 071	3, 690
fisheries		l	l	8,963	1,900	I <i></i>	l	l
Other articles	1,374	824	3, 408	23, 390	10, 186	7, 281	*33, 017	† <b>45,</b> 896
Total	887, 972	868, 753	367, 450	1, 396, 377	2, 208, 373	1, 959, 393	736, 831	5, 287, 772

Imports from Canada free by ordinary laws.

The detail of imports from the Provinces other than Canada, free by other laws than the treaty, is also shown to be mainly of United States produce returned and specie in small amount. The following are the items:

Years.	Specie.	Produce of U.S. re- turned.	Gypsum.	Animals living.	Other articles.
1854-'55 1855-'56 1856-'57 1857-'58 1858-'59 1859-'60 1860-'61 1861-'62 1869-'63	\$33, 807 14, 930 21, 683 18, 847 4, 018 83, 651 28, 391 5, 542	\$14, 651 14, 248 25, 956 28, 539 673, 567 110, 096 84, 510 83, 523 92, 257	\$103, 226 109, 974 88, 314 80, 484 78, 600 97, 954 80, 832 9, 425 20, 093	\$375 431 638 3,518 6,660 5,442 4,521 125	\$28, 175 35, 179 17, 751 60, 858 23, 230 37, 952 3, 711 9, 767 10, 500

The import trade from the British Atlantic provinces is very small in actually free articles other than those affected by the reciprocity treaty. On the Pacific coast there is a receipt of bullion from Victoria at San Francisco, the value of which is given in the published commerce and navigation reports as imports from British North American provinces. It has been separated from the above statement, though in other statements of trade with the provinces the small trade of San Francisco with British Columbia in duty-paying articles has not been separated. The bullion brought to San Francisco from British Columbia began in 1859, and was, in 1861–'62, \$756,423, and in 1862–'63, \$1,663,642.

The record of imports and exports at United States ports of the lake district almost invariably confines the transactions to Canada, the exceptions being only one outward shipment from Milwaukie to England in 1861, value \$46,061, and one similar shipment in 1863, value \$3,381. It has therefore been necessary to consider all the trade of the lake district as conducted with Canada, although the registered entries and clearances of vessels show frequent transactions direct with English ports. The following is the detail of actual entrances and clearances at these lake ports for European ports, through the St. Lawrence, from the official returns:

<sup>\*</sup> Including 9,410 pounds indigo, \$8,428. † Including 13,766 pounds tea, \$10,247; 20,763 pounds indigo, \$14,429.

Fiscal years.	No.	Clearances.	Tons.	No.	Entrances.	Tons.
1855-'56 1856-'57 1857-'58	 1 1	Chicago to England Chicago to England	379 123	 i	England to Chicago England to Cleveland	123
1858-*59	9 3 16 2	Cleveland to England Detroit to England Chicago, Detroit, and Cleveland to England Same ports to Hamburg		1 7	England to Cleveland England to Detroit England to same ports.	382 382 2,401
1859-'60 1860-'61 1861-'62 1862-'63	1 5 5 1	Same ports to Spain. To England and Scotl'd. To England and Ireland. To England.	343 1,436	10 8 3 1	From England From England From England From England	3, 575 2, 836 1, 168 394

Undoubtedly the outward shipments by these vessels were considerable, and a few imports are specified in the statistics of soda ash, iron, salt, &c. But the trade is not a permanent one in any sense. In the last fiscal year but a single vessel cleared and entered, and it can therefore scarcely be necessary to make a distinct and precise account of it as of a permanent trade. This practical neglect of the St. Lawrence river as an outlet to western produce of the United States, under the circumstances controlling that route for the last four or five years, is particularly significant, and decisive as to the channels this tradesprefers. Not only the treaty of reciprocity, but the careful and inviting legis—lation of Canada in regard to tolls and tonnage duties, have united to removes all obstacles to the free employment of this route for the export of breadstuff and provisions from the western States. Great hopes were entertained in Canad of the commerce that would be thus developed, but the united efforts of the tw governments have proved of little effect in opening a channel preferable to the made up of the lakes, the canals, and railroads of the United States. The statistics of downward freight through the Welland canal show that mo American produce entering that canal returns again to American ports. tables of this Welland canal tonnage, given here from the official Canadisment reports, are particularly instructive on the point of the destination of bo upward and downward freight.

The following extracts from the report of the Hon. W. P. Howland, finance minister of Canada in 1862, state very compactly and forcibly the principal facts connected with the expected occupation of the St. Lawrence river as a line of outward transit for produce of the western States. They are from the Carantee of the canada and the contraction of the St. Lawrence river as a line of outward transit for produce of the western States.

dian Trade and Navigation report for 1862:

#### Movement of American produce in and through Canada.

The movement of property on the provincial canals shows a steady increase. On Welland canal the movement was:

·	Tons property.	Tonnage of version.
In 1859	709,611	856,918
1860	944 084	1,238 509
1861	1,020,483	1,327,672
1862	1,243,774	1,476,842
And on the St. Lawrence canals the movement was:  In 1859	631.769	765, <b>636</b>
1860		824 <b>,465</b> -
1861		1,009.469
1862	964,394	1,049,230

The movement on the Welland canal has, therefore, increased 7½ per cent. in 1861 over 1860, and in 1862 15 per cent. over 1861. Whilst on the St. Lawrence canals the movement of tonnage has increased in 1861 by 22 per cent. over 1860, and in 1862 by 6 per cent. over 1861.

In this connection I propose to consider the effect which the removal of the tolls from the St. Lawrence canals, and the reduction of those on the Welland, has had on the move-

ment of property through those works.

That the movement of property by the St. Lawrence route has been greatly augmented during the past three years is sufficiently apparent from the figures above given, and we may congratulate the country thereon; but that this increase has been due to the remission of the tolls is not to be assumed without taking into account other circumstances which have mainly influenced the direction of trade.

First among these circumstances may be stated the greatly increased production of cereals in the western States, and the figures presently introduced will show that in proportion to that increase, and to the whole volume of agricultural produce moved from Lakes Erie and Michigan to tide-water, we have not obtained so large a traffic since the removal of the tolls as we obtained prior to the adoption of that policy.

The following statement shows the quantity of grain sent eastward from the lake

regions, including Canada, during the last seven years:

Years.	Flour.	Wheat.	Corn.	Other grain.	All reduced to bushels.
	Barrels.	Bushels.	Bushels.	Bushels.	
1856	3.865,442	19,505,358	14, 282, 632	4, 592, 569	57,707,769
1857	3, 397, 954	16,763,285	8,779,832	2,256,944	44, 789, 851
1858	4, 499, 613	21,843,859	10, 495, 554	5, 035, 097	59, 872, 566
1859	3,760,274	16,865,708	4,423,006	4, 264, 051	44, 354, 225
1860	4, 106, 057	32, 334, 391	18,075,778	7,712,032	78, 652, 486
1861	6,533,869	46, 384, 144	29,524,628	10,686,115	119, 264, 233
1862	8, 359, 910	50,699,130	32,985,923	10,844,939	136, 329, 542

The following statement shows the proportion of wheat and flour which has passed from the western States to tide-water by the St. Lawrence and Erie canals, respectively, during the same period, (all being reduced to bushels of wheat:)

#### Movement of American breadstuffs.

Years.	Down the St. Lawrence.	Through Erie canal.	Total to tide- water.
1856	1, 209, 612	15, 342, 833	16, 553, 445
857	1,930.280	10,601,532	12,531,812
858	1,876,933	13, 757, 283	15, 634, 216
1859	1,988,759	10, 371, 966	12, 360, 725
1860	1,846,462	23, 912, 000	25, 758, 469
1861	3, 103, 153	34, 427, 800	37, 530, 953
1862	5, 320, 054	39, 240, 131	44, 560, 185

NOTE.—The above statement is computed by adding to the importations from United States ports, at Kingston, the quantities sent down the St. Lawrence canals from the United States to the Canadian ports, and it is assumed that all the imports at Kingston were sent down he St. Lawrence canals. The movement on the Eric cana. during the first s.x years is taken from the canal auditor's reports; that for 1862 is from "Hunt's Merchants Magazine." The statement relates only to wheat and flour.

Hence it appears that of the whole quantity of western wheat and flour which was transported to tide-water through the New York and Canadian canals during the past seven years, we obtained for the St. Lawrence route, in 1856, 7.3 per cent.; 1857, 15.4 per cent: 1858, 12.01 per cent.; 1859, 16.08 per cent.; 1860, 7.16 per cent.; 1861, 8.26 per cent.; 1862, 11.4 per cent.

These are the principal commodities which have heretofore passed through the St. Lawrence canal. If we include with them the Indian corn, which figures so largely in the Welland and Eric canal returns, the percentage will become still less favorable to us, and the proportions will be still further reduced by bringing into the comparison the cereal products of the western States which are carried to tide-water by the several railroads converging at the Atlantic ports.

While we have failed to obtain so large a proportion of the western trade, since the removal of the tolls, as we obtained in 1859 and the preceding years, the tolls levied on that (the Erie) canal which is the chief competitor with the St. Lawrence route have been materially increased, as the following comparison of tolls on the three principal articles will show:

Toll per 1,000 pounds per mile.	1860 and previous years.	1862.
On corn	2 mills.	21 mills.
On flour		3 ' ''
On wheat	2 4	3 " "

This increase is equivalent to an advance of seventy cents per ton on wheat and flour from Buffalo to tide water, and of forty cents per ton from Oswego to tide water; whilst the advance on corn is equivalent to thirty-five cents per ton from Buffalo, and to twenty cents per ton from Oswego.

The rates of freight have also increased by the Eric canal, and they have increased in a still greater ratio by the St. Lawrence. During the four years next preceding 1859 the average freight for flour from Lake Ontario ports to Montreal was \$1 84½ per ton. In 1860, the year in which the tolls were removed from the St. Lawrence canals, the rate of freight was \$2 11½ per ton; in 1861 it was \$2 56½; in 1862 it was \$2 61; so that the increase over the average of the four years preceding 1859 was seventy-two cents in 1860, seventy-two in 1861, and eighty-one in 1862. If we add to these figures the tolls remitted, we find that the forwarder received over the average rates which they obtained in the four years above alluded to, in 1860, forty-nine cents per ton; in 1861, ninety-four cents, and in 1862, one dollar and three cents per ton, together with the tolls on the tonnage of his shipping.

Comparing in a similar manner the rates of freight obtained for carrying wheat, we have a still more striking example of the advanced rates which the forwarders have been able to exact. The average freight rates for wheat from Lake Ontario ports to Montreal, in 1855, 1856, 1857, and 1858, was \$1 81 per ton; in 1860, \$1 21; in 1861, \$2 72, and in 1862 it was \$2 71 per ton. Thus the advance over the average rate during the four years first named was, in 1860, \$1 21; in 1861, \$1 13; in 1862, \$1 13. Adding the tolls relinquished by the province, it will be seen that the advance obtained by the forwarder has been, in 1860, \$1 43, and in 1861 and 1862, \$1 35 per ton, together with the tolls due to the tonnage of his vessels.

Whatever else may be urged in favor of free canals, it certainly cannot be said that the policy of 1860 has been productive of benefit, either to the producer or consumer of western breadstuffs; and from the advance which has taken place in the freights by the St. Lawrence route, as well as in both tolls and freight by the competing route to tidewater at Albany, it is abundantly manifest that the forwarder can pay a moderate toll without unduly trenching on his profits.

It can be shown from reliable data that, in so far as the actual cost of transportation (including therein the canal tolls recently imposed) is concerned, western produce can be carried to tide-water much cheaper by the St. Lawrence than by any competing route; and we must trace our failure to obtain for our canals a greater proportion of the western trade to other causes than the charges heretofore imposed for the use of thos? works. I am persuaded that the chief cause of that failure lies in the absence of sufficient competition among forwarders engaged in the St. Lawrence trade; in the financial relations between shippers engaged in the western trade and the capitalists of New York; and, finally and chiefly, in the lower rates of ocean freights from New York to Europe, occasioned by the greater competition at that port than is to be found at Quebec or Montreal It is gratifying to know that the Canadian forwarder has been able to obtain the advanced rates above quoted, but we cannot find therein a justification of that policy which, in addition to other advantages, would give him the free use of costly works which complete the grandest system of inland navigation in the world, and have not been constructed without imposing heavy burdens on the country. If it could be shown that the tolls remitted had gone in mitigation of the comparatively high rate of ocean freight to which our trade is subject, we might find in that fact some reason for making our canals absolutely free. But it has been shown that this has not been the result. The tolls have gone to enhance the profits of the forwarder whose freight tariff has been regulated, not by the cost of doing his work,

but by the competition with which he has had to contend. There is but one course open for securing that quots of the western trade which the advantages of the St. Lawrence route gives us reason to anticipate. If we can give to the owners of the largest vessels now profitably engaged in the trade of Lake Michigan the option of trading to Kingston and the St. Lawrence, or to Buffalo, as may be found most profitable, we shall have thrown down the barrier which now forces the main current of trade into the Eric canal. We shall have more than balanced the greater insurance and freights charged from our scaports to Europo over the corresponding charges from New York, and we may thereafter expect Quebec and Montreal to take rank amongst the greatest grain marts of this continent. All of which is respectfully submitted.

W. P. HOWLAND, Minister of Finance.

QUEBEC, May 12, 1862.

(This very full and impartial statement has been copied at length because of its decisive bearing on the question which was, a few years since, considered a great and practical one for the western producing States, namely: whether they were to anticipate relief to the pressure of their export trade when the St. Lawrence should be fully opened to them.

The transit trade through Canada, inward and outward, by way of the St. Lawrence, is incompletely given in the Canadian trade reports, as follows:

Statement of the transit trade through Canada, via the St. Lawrence, to and from the United States.

			_
[From	Canadian	authorities	. 1

Calendar years.	Values to the U. States.	Values from the U. States.
1854		
1855	18, 015 13, 493	
1856 1857	183, 790	
1858		
1860		
1861		\$3,505,511
1862	490, 298	5, 198, 920
1863	512,245	2,997,818

The transit trade through the United States to Canada is another important element of the mutual exchanges, one of which the volume is unexpectedly large, larger than the export of United States produce by way of the St. Lawrence. It is conducted almost wholly over the railroads leading from Portland, Maine, to the frontier of Vermont, and makes up the larger half of the business of the sub-port of entry of Island Pond, Vermont.

Value of imports into Canada passing through the United States under bond.

1855	\$4, 463, 774
1856	4, 926, 922
1857	5, 582, 643
1858	2, 057, 024
1859	4, 546, 491
1860	3, 041, 877
1861	5, 688, 952
1862	5,508,427
1863	6, 172, 483

The rapid increase of this traffic is remarkable. It affords a channel for steamer freight that appears to be preferred to the slower course by way of the St. Lawrence. The comparison of the use by Canada of the two channels of imports is as follows: showing that more than a third of the import trade of Canada enters now at United States ports, and is transported over our railroads under bond.

	Imports via United States	Imports via St. Lawrence.
1855	\$4, 463, 774	\$12, 738, 373
1856	4,926,922	16, 989, 513
1857	5, 582, 643	14, 378, 094
1858	2, 057, 024	10, 768, 161
1859	4, 546, 491	11, 472, 754
1860	3, 041, 877	13, 527, 160
1861	5, 688, 952	16, 726, 541
1862	5, 508, 427	17, 601, 019
1863	6, 172, 483	16, 439, 930

Evidently the advantages of unrestricted transit to and from sea are quite as valuable to the business of Canada as to that of the United States. The preponderance of steamship traffic in the carriage of all classes of merchandise is increasing the transportation of railroad lines such as these from Portland and Boston to Canada.

#### EXPORT OF UNITED STATES MANUFACTURES TO CANADA.

The reduction in the value of manufactured articles of the United States exported to Canada in recent years as compared with an earlier period has been referred to. In the following table the extent of this reduction and its relation to particular articles is shown, the comparison being for the years 1858 to 1863. Undoubtedly this decline cannot be a natural result between two countries in such proximity maintaining open and equal commercial relations. Especial causes only could produce such a decline in the face of the very great increase of manufactures in the United States during these years, and their development in superior fabrics of every sort. The Canadian tariffs are chiefly levied ad valorem on the invoice values of goods at the point of purchase for importation into Canada, whether that be in the United States or in Europe, and the consequence is a practical difference against purchasing in the United States which increases with every accession to prices here, and has now attained to the full nominal measure of the duty levied. The increase in the price of fabrics, caused by the successive tariff acts of the United States and by the internal duties levied, has steadily increased this difference, in connection with the higher rates of ad valorem duty levied in Canada, until it now amounts very nearly to a prohibition of purchases in the United States of duty-paying articles. A duty of twenty per cent. on invoices made in England, can scarcely fail now to amount to two such percentages when the same or similar goods are purchased in the United States, simply through the duplication of prices attained here.

Efforts have been made in Canada to obviate the difficulty in some measure by admitting United States invoices at a reduction to gold values, but nothing has been settled on. While these conditions continue, the trade to Canada in articles not covered by the reciprocity treaty, or otherwise free, will remain very small, and that market for manufactures will practically cease to exist.

Values of manufactured articles of the United States exported to Canada, and paying duty.

	1	1	1	i	i
Articles.	1858-'59.	1859-'60.	1860-'61.	1861-'62.	1862-'63.
~	****	4044 404	A.00 704	4010 110	
Cotton manufactures  Homp manufactures, (including cordage.)	\$363,016 32,762	\$314,491 21,971	\$403,591 43,664	\$246, 442 16, 378	\$64,49 10,56
Iron manufactures, (all other than pig.)	761, 619	716,597	839, 421	773, 381	395,90
Leather boots and shoes	211, 147	137, 475	106,648	66,770	22,86
Tobacco, manufactured		863, 934	683,875	203,681	76,02
Glasswares	85, 232	77,061	83,950	121, 381	87,03
Earthenware	9,350	11, 151	12, 347	12, 147	8,24
House furniture	136,765	123, 251	124, 250	188, 829	66,7
India-rubber manufactures	13, 217	5,936	10, 158	1, 151	52
Carriages		109, 419	11, 117	35,054	11,50
Books	154,034	79, 134	106, 324	62, 838	25, 16
Paper and stationery	78,825	61,433	74,272	72,376	55, 17
Jewelry		5,760	12,954	11,046	5,04
Hats	116, 150	90,100	79,016	49,505	14,07
		20,565	4,362	1,375	40.00
Marble and stone manufactures	53,883	109,009	97,977	97,002	48, 20
Trunks and umbrellas	5,470	1,575	2,577	1,967	1,43
Clothing	9 373	16,655	11, 163	8, 494	1,32
Wood mannfactures	45, 146	49,547	36,593	49,061	58, 30
Candles and soap		8,079	9,558	4,583	2,42
Paints and varnish		32,521	39,903	39,646	30,09
Copper and brass manufactures		49,658	16,909	32, 238	50,87
Musical instruments	104,534	91,732	122,800	100,907	67,44
Printing materials	1,771	3,437	5,534	4,259	1,26
Other enumerated Unenumerated manufactures	21,990 624,534	5,595 542,028	12,776 549,903	8, 190 388, 229	4,78 401,22
Total	4 185 516	3, 548, 114	3 501 649	2.596.930	1,510,80
_ UMI	2, 100, 010	-,	0,001,022	2,000,000	1,010,00
PREPARED PROVI	<u> </u>	1	[		1,010,00
PREPARED PROVI	<u> </u>	78,637	D FREE OF		
PREPARED PROVI	ISIONS, ETC	., EXPORTE	D FREE OF	DUTY.	2, 31 670, 43
PREPARED PROVI	26, 506	78,637	D FREE OF	DUTY. 3,729	2, 31 670, 43
PREPARED PROVI	26, 506 542, 972	78, 637 477, 336	1,718 165,745	3,729 559,184	2, 31 670, 43 63, 57
PREPARED PROVI Beef	26, 506 542, 972 68, 394	78,637 477,336 53,470	1,718 165,745 4,568	3,729 559,184 19,828 71,472 86,870	2, 31 670, 43 63, 57 78, 71
PREPARED PROVI	26, 506 542, 972 68, 394 15, 256	78,637 477,336 53,470 40,154	1,718 165,745 4,568 5,847	3,729 559,184 19,828 71,472 86,870	2, 31 670, 43 63, 57 78, 71 55, 39
PREPARED PROVI	26, 506 542, 972 68, 394 15, 256 50, 126	78,637 477,336 53,470 40,154 38,896	1,718 165,745 4,568 5,847 37,945	3,729 559,184 19,528 71,472 86,870 70,799 144,062	2, 31 670, 43 63, 57 78, 71 55, 39 40, 57
Beef	26, 506 542, 972 68, 394 15, 256 50, 126 69, 642	78, 637 477, 336 53, 470 40, 154 38, 896 183, 723	1,718 165,745 4,568 5,847 37,945 4,486	3,729 559,184 19,828 71,472 86,870 70,799	2, 31 670, 43 63, 57 78, 71 55, 39 40, 57 103, 33
PREPARED PROVI	26, 506 542, 972 68, 394 15, 256 50, 126 69, 642 113, 013 6, 845	78, 637 477, 336 53, 470 40, 154 38, 896 183, 723 136, 893	1,718 165,745 4,568 5,847 37,945 4,486 90,860 1,816	3,729 559,184 19,528 71,472 86,870 70,799 144,062	2, 31 670, 43 63, 57 78, 71 55, 39 40, 57 103, 33 2, 00
PREPARED PROVIDES OF THE PROVI	26, 506 542, 972 68, 394 15, 256 50, 126 69, 642 113, 013 6, 845	78, 637 477, 336 53, 470 40, 154 38, 896 183, 723 136, 893 3, 726	1,718 165,745 4,568 5,847 37,945 4,486 90,860 1,816	3,729 559,184 19,528 71,472 86,870 70,799 144,062	2, 31 670, 43 63, 57 78, 71 55, 39 40, 57 103, 33

The exports of prepared provisions, being nearly all free of duty, are fairly maintained. That of liquors has nearly ceased, and an enormous stimulus has been given to distillation in Canada of corn imported free from the United States.

The export of wheat and flour to the coast provinces has been referred to as a large and direct trade to a market for consumption. It constituted the chief part of the export trade previous to the enactment of the reciprocity treaty, breadstuffs having always been admitted free of duty into the colonial ports of the Atlantic coast.

Year ending-	WHI	<b>М</b> НЕАТ.	WHEAT	r FLOUR.	INDIAN	CORN.	MEAL, C	CORN AND RYE.	Total values	Total domos-
0	Bushels.	Value.	Barrels.	Value.	Bushels.	Value.	Barrels.	Value.		
June 30, 1849	305, 383	\$339, 765		\$1,518,922		\$126, 791	211,045	\$625,691	04,	17.
851	216,971	220, 319	200, 664	945,337	101, 169	66, 199	92, 341	289,510	1,521,365	3,224,553
852	189,672	165, 106		688,956		105, 221	42, 121	137, 718	28,0	50,
854	148,882	216,266		955, 484		149,688	95, 485	378, 295	99,	93
865	98, 323	182,614		1,753,395		154, 214	139, 795	702, 204	95,	55,
856	147, 925	268,959		3,120,787		136, 774	145, 409	631, 959	28	6
858	103,943	132, 187		2,618,913		85,210	66,255	248, 420	84,	1
859	. 74,676	100,717		3,962,171	_	93, 320	53,440	209,049	65,	29,
	68, 621	90,049		3,044,243		85,915	52, 941	206,881	127,	05
	19,886	56, 563		3,065,219	-	40,875	69,780	198, 029	30,	33,
862	13,748	16,582		3, 199, 208	-	65, 358	85,835	254, 182	35,	69
3	70,894	110,333		4 490 748	_	131,552	74 478	886 986		20

The fisheries of the coast provinces constitute a large nature, market for provisions and breadstuffs which can never be supplied so cheaply from Canada as from the United States. The average imports from them are scarcely half the exports, as will be seen by comparing the annual totals of trade with the provinces, and but a very small proportion of these imports pay duty on entering the United States. The average annual value paying duty is \$216,172, for the eight years of the operation of the treaty, while for the five years preceding, the average paying duty was \$1,750,000.

Table of trade through the Canadian canals in produce of the United States, distinguishing the points of origin and destination, for the years 1861, 1862, and 1863.

EASTWARD OR DOWNWARD TRADE THROUGH THE WELLAND CANAL.

		<del></del>				
•	18	61.	18	62.	· 186	<b>3.</b>
From United States ports.	To Canadian ports.	To United States ports.	To Canadian ports.	To United States	To Canadian ports.	To United States ports.
A . 14 11 11 11 11 11 11 11 11 11 11 11 11	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Agricultural implements, castings, &c	4 6 193	26 121 185	6 9 39 164	19 79 132 728	2 219 368 170 6	6 66 35 3,329
bacon Butter and cheese Clover seed Coal Corn and corn meal	764 12 6 53, 663 39, 836	2, 132 129 122 1, 582 113, 793	460 <u>1</u> 23 47, 818 65, 402	6, 160 <del>1</del> 395 <del>1</del> 124 1, 231 93, 648	3,509 33 41,527 355	8,429 5% 389 1,629
Cotton	7 1, 265 7	126 53 41,812 90 17 175	111 1,809 3	1 24 <del>1</del> 48, 616 71 130 381	2 17,900 15 69 93	13 53, 246 69 85 195
Hides		25 13 376 417	7 1 14 <u>1</u>	49 532 <del>1</del>	15 1 83	18 9 593 1,322
Oats		873 • 615 393 262 2	1,373 757 54 <del>1</del>	2, 142 <del>1</del> 340 439 1 40	1,823 300 2,533	89 160 38
Hay and broomcorn Rags Rye and rye meal Salt	18 1 361 40 119	118 80 1,960	2,476 47 <del>1</del> 76 <del>1</del>	48 49 1,301	16 44 878 21 52	11 24 1,049
Stoneware	8,166 105,993	555 502	2, 135	73 <u>1</u> 122 171 <u>1</u> 286, 478 <u>1</u>	6, 149 32	147 147 233,100

Table of trade through the Canadian canals, &c.—Continued.

	-		<u> </u>			
	18	ĉi.	18	62.	186	3.
From United States ports.	To Canadian ports.	To United States	To Canadian ports.	To United States ports.	To Canadian ports.	To United States ports.
Whiskey	Tons.	Tons. 1,249 133 534	Tons. 16 <del>1</del> 53 <del>1</del>	Tons. 1,837 2531 5641	Tons. 31 8, 191	Tons. 1,528 352 776
Total Lumber and timber	211, 210 6, 713	404, 634 22, 887	283, 981 <u>1</u> 1, 210 <del>1</del>	447, 264 <del>1</del> 24, 257	203, 653 94, 783	306, 865 134, 997
Total all classes	217,892	427, 521	285, 192	471,521}	298, 436	441,862
WESTWARD (	OR UPWARI	D TRADE T	HROUGH TE	IE WELLAN	D CANAL.	
Agricultural implements, tools, &c	2 7 4	295 255 11	· 5 <u>1</u> 7 28	199 303 1	5 139 32	205 481 5
Bricks, cement, lime, clay, and slate Butter and cheese Chalk and whiting	2	4, 029 43 171	121 <del>1</del> 4	4, 278 <del>1</del> 42 . 505	209 16 1	5, 829 72 169
Ooal	1,568	12, 331 631 24	1,744	7,038 394 <del>1</del> 5	2, 055	24, 55 302
Corn	3, 029 17	6	3,049	204	27, 487 3	72, 979 2: 195
Earthware and glass- ware Fish	1 2 5	556 1, 234	3	1,208 2,360	78 53	1, 161 5, <b>72</b> 9
Flour FurnitureGypsum Hemp	5 2	5 714 39 271	24) 7) 4	557 <u>‡</u> 687 333	4, 339 19 55	129 1,501 999 341
Horses, cattle, and sheep. Iron, nails, and spikes. Junk and oakum Leather	57 5	305 9,558 52 13	21 <del>1</del> 31 21	29 14, 081 <u>1</u> 165 <u>1</u> 133 <del>1</del>	1,274 10	223 40, 622 122
Mahogany Marble Molasses Oats	8	8 916 809	5 114	19 960 1, 346	346 6	50 3, 085 2, 726
Oils Ores, (iron) Paints	1	620 2, 976 338	11 <del>1</del>	433 6, 340 669	64 10	384 21,883 636
Pitch, tar, and turpen- tine	6 253	75	1 618	73	20 501	96
SultShip storesSoda ash	1,935	72, 672 47 308	2, 1551	112, 922 278 784 <del>1</del>	2,668 3 14	102, <b>90</b> 9 372 615

Table of trade through the Canadian canals, &c.—Continued.

	1861.		18	<b>62.</b>	1863.	
From United States ports.	To Canadian ports.	To United States ports.	To Canadian ports.	To United States ports.	To Canadian ports.	To United States ports.
Tobacco	Tons. 1 3,596 39 45 136	Tons. 39 2 9 122 4,293 200	Tons. 5, 307 1 75 1, 443½	Tons. 190½ 5 79 9,393½ 981	Tons. 15 18, 106 366 32 4, 203 5, 063	Tons. 17 14 193 19,636 10,497
Total	10, 185	116, 240	14,9081	171,6731	67,478	323, 244

# Transportation by the St. Lawrence Canal from American ports to Canada, (down and up.)

#### [From Canadian official reports.]

Articles.	1861.	1862.	1863.
Ashes tons	9	99	100
Apples and vegetablesdo	12	3,0271	6, 101
Beer, cider, and vinegardo			186
Butter and cheesedodo		120	753
Cement, lime, and bricksdodo	233	83	847
Coal	3,216	3,472	423
Corn, barley, and graindodo	3,221	3,857	300
Cottondodo	.  9		
Flourdodo		3,417	1, 167
Sypsumdodo	187		11
Hempdo		28	80
Hides	. 10	34	20
rondo	. 5	891	58
ard and lard oildodo		341	471
Live stockdodo	24	23	22
Oresdodo	114	2,658	1,276
Pitch, tar, and rosindodo	158	428	241
Pork	66	684	889
Salt	27	121	22
Sugardo	457	381	102
Molasses do do		75	124
Cobaccododo		1741	10
Wheatdo	5, 143	3, 254	7, 667
Spiritsdo		56	16
Stonedodo		557	385
Lumber and stavesdo	166	145	563
Firewood			381
Other articlesdo	413	489	777
Total	16,537	22,691	23, 118

Summaries of the trade of the principal ports of the northern frontier with Canada.

Exports and imports for eight years, 1856 to 1863 inclusive, as reported from the following collection districts:—Vermont: Ports of Burlington and Island Pond, Vt.—Champlain: Rouse's Point and Plattsburg, N. Y.—Oswegatchie: Ogdensburg, N. Y.—Cape Vincent: Including Sackett's Harbor with Cape Vincent, N. Y.—Oswego: Port of Oswego only.—Genesee: Rochester.—Niagara: Niagara and Suspension Bridge, N. Y.—Buffalo Creek: Buffalo.—Presque Isle: Erie, Penn.—Cuyahoga: Cleveland, Ohio.—Sandusky and Miami: Sandusky and Toledo, Ohio.—Detroit.—Mackinaw, Mich.—Milwaukie, Wis.—Chicago.

District and period.	Domestic exports.	Foreign exports.	Total exports.	Imports.
DISTRICT OF VERMONT. (Burling ton and Island Pond.)				
Year ending June 30, 1856	283,009 237,686 295,649 257,083 244,657 197,803	\$680, 843 365, 461 727, 949 840, 905 526, 619 514, 416 441, 584 541, 358	\$1,031,450 648,470 965,665 1,136,565 783,702 809,073 639,387 736,661	\$1,560,118 2,709,193 2,196,088 1,802,688 2,731,857 3,477,811 3,163,794 2,567,892
DISTRICT OF CHAMPLAIN. (Rouse' Point and Pluttsburg.)	8			
Year ending June 30, 1856	1,076,135 853,928 2,150,431 997,296 819,671 752,956	1,164,009 1,240,927 1,138,531 2,352,209 912,963 740,244 898,976 696,088	3,518,804 2,317,062 1,992,459 4,502,640 1,910,259 1,559,915 1,651,932 5,159,718	1,718,413 2,334,402 1,559,896 2,360,984 2,538,982 2,187,675 1,621,284 7,642,279
DISTRICT OF OSWEGATCHIE. (Og densburg, N. Y.)	-			
Year ending June 30, 1856	941, 115 487, 043 356, 251 223, 705 179, 343	739, 676 45, 400 197, 163 71, 455 20, 810 18, 840 15, 687	1,514,281 986,515 684,206 427,706 244,515 198,183 159,979 344,464	1,808,805 2,452,840 961,116 1,017,281 974,153 675,917 1,131,810 703,404
DISTRICT OF CAPE VINCENT. (In cluding Sackett's Harbor, N.Y.)	•		15.7	
Year ending June 30, 1856	506, 685 465, 807 351, 833 181, 220 205, 393 389, 416	298, 669 221, 632 267, 505 199, 059 160, 238 117, 362 119, 515 105, 744	965, 365 728, 317 733, 312 550, 892 341, 458 322, 755 518, 931 375, 580	1, 605, 473 1, 291, 457 1, 233, 423 890, 698 847, 007 768, 500 708, 902 416, 786

<sup>\*</sup> Including an unusual export of \$3,376,977 of gold and silver coin.

# Summaries of the trade of the principal ports, &c.—Continued.

District and period.	Domestic exports.	Foreign exports.	Total exports.	Imports.
DISTRICT OF OSWEGO.				
Year ending June 30, 1856	\$4,787,750 3,059,527 1,849,769 1,732,582 1,488,226 2,075,895 1,359,598 1,268,610	\$686, 357 476, 531 197, 163 358, 813 137, 450 275, 265 69, 963 712	\$5, 474, 107 3, 536, 058 2, 046, 952 2, 091, 395 1, 625, 676 2, 351, 160 1, 429, 561 1, 269, 322	\$5, 321, 278 3, 762, 969 1, 870, 774 3, 637, 709 4, 875, 989 5, 864, 130 3, 557, 408 2, 653, 533
DISTRICT OF GENESEE. (Rochester, N. Y.)				
Year ending June 30, 1856	757, 910 174, 611 157, 469 166, 156 236, 710 245, 254 273, 844 310, 352	10, 968 14, 552 7, 884 2, 302	757, 910 185, 579 172, 021 174, 040 239, 012 245, 254 275, 424 310, 352	1, 117, 301 968, 734 272, 047 353, 795 719, 451 337, 467 177, 303 158, 827
and Suspension Bridge, N. Y.)		,		
Year ending June 30, 1856	874, 892 1, 540, 774 1, 140, 587 1, 734, 405 1, 686, 755 2, 084, 444 1, 266, 759 358, 857	194,713 177,556 273,551 660,123 657,005 510,374 170,178 9,447	1, 069, 605 1, 718, 330 1, 414, 138 2, 394, 528 2, 394, 760 2, 594, 818 1, 436, 937 368, 304	1, 055, 740 1, 531, 357 916, 969 1, 049, 944 2, 172, 615 1, 900, 271 1, 560, 795 1, 286, 544
Vear ending June 30, 1856	868, <b>6</b> 64	80, 865	949, 529	1,887,230
1857	869, 371 681, 603 773, 312 616, 100 573, 877 517, 948 497, 686	72, 599 80, 600 146, 683 89, 025 69, 105 15, 853 26, 594	941, 970 762, 203 920, 195 705, 125 642, 982 533, 801 524, 280	1, 601, 419 1, 380, 624 1, 669, 845 2, 677, 739 2, 573, 322 2, 584, 078 2, 220, 432
DISTRICT OF PRESQUE ISLE. (Eric, Pa.)			•	
Year ending June 30, 1856	88, 084 49, 276 49, 160 30, 121 30, 060 37, 019 104, 067 120, 406	•	88, 084 49, 276 49, 160 30, 121 30, 060 37, 019 104, 067 120, 406	4, 360 4, 619 1, 846 2, 789 7, 478 2, 700 4, 701 11, 449
Year ending June 30, 1856 1857 1868	764, 690 585, 449 <b>997, 515</b>		764, 690 585, 449 <b>997, 515</b>	434,719 231,347 180,819

# Summaries of the trade of the principal ports, &c -Continued

District and	District and period.		Foreign exports.	Total exports.	Iı
Year ending June 30,	1859 1860 1861 1862	\$310, 996 187, 412 369, 390 288, 021 653, 411		\$210, 996 187, 412 -369, 390 288, 021 653, 411	
DISTRICTS OF SAND					
Year ending June 30,	1856	280, 362 348, 540 42, 046 52, 015 97, 398 313, 805 613, 369 *995, 444		280, 362 348, 540 42, 046 52, 015 97, 398 313, 805 613, 369 995, 444	
DISTRICT OF	DETROIT.				
Year ending June 30,	1856	895, 624 1, 487, 223 5, 168, 031 3, 924, 624 3, 826, 932 330, 752 1, 631, 612 1, 928, 302	\$15, 363 20, 676 125, 803 80, 298	895, 624 1, 502, 606 5, 188, 707 3, 624, 624 3, 826, 932 330, 752 1, 757, 515 2, 008, 600	1
DISTRICT OF	CHICAGO.				
Year ending June 30,	1857 1858 1859 1860 1861 1862 1863	1, 345, 223 1, 585, 096 1, 713, 077 1, 269, 385 1, 165, 183 3, 522, 343 2, 303, 275 3, 544, 085	308	1,345,223 1,585,404 1,713,077 1,269,385 1,165,183 3,522,343 2,303,275 3,544,085	
Year ending June 30,	_	345, 493		345, 493	
,	1857	522, 044 543, 280 699, 088 187, 111 785, 832 1, 425, 088 3, 323, 637		522, 044 543, 280 699, 088 187, 111 785, 832 1, 425, 088 3, 323, 637	
DISTRICT OF MACE	INAW, MICH.				
Year ending June 30,					

<sup>\*</sup> Nearly all this amount was exported in the quarter ending September 30, 1862, at Toled

#### Summary at ports eastward of Buffalo, including Buffalo.

Year.	Domestic ex- ports.	Foreign ex- ports.	Total exports.	Imports.
1856 1857	\$11,435,919 8,451,227 5,873,912	\$3,845,132 2,611,074 2,897,044	\$15, 281, 051 11, 062, 301 8, 770, 956	\$16,074,457 16,652,371 10,390,937
1859	7,560,629	4,637,332	12, 197, 961	12,782,924
1860	5,687,095	2,506,412	8, 193, 507	17,538,793
1861	6,428,534	2,295,606	8, 724, 140	17,785,093
1862	4,912,616	1,733,336	6, 645, 952	14,505,374
1863	*7,795,738	1,289,943	9, 088, 681	17,649,697

<sup>\*</sup>Including an ususual export of \$3,376,977, at the district of Champlain, of gold and silver coin.

#### Summary at ports westward of Buffalo.

Yeur.	Domestic exports.	Foreign exports.	Total exports.	Imports.
1856. 1857. 1858. 1859. 1860.	\$3,619,476 4,577,628 7,813,109 5,886,229 5,494,096 5,359,141	\$15, 691 20, 676	\$3,619,476 4,593,319 7,824,785 5,886,229 5,494,096 5,359,141	\$1,653,619 1,622,584 1,203,507 1,460,508 1,306,880 890,600
1862 1863	6,365,532 10,565,285	125, 803 80, 298	6,491,335 10,645,583	767, 687 1, 167, 302

#### CANADIAN FREE PORTS.

By an act of the Canadian legislature which went into operation November 20, 1860, the harbor and district of Gaspé Basin, in the Gulf of St. Lawrence, was constituted a free port into which goods of every description might be imported, either for consumption or for re-exportation, without the payment of duties. An extended line of coast was embraced in this district, with Anticosti island and the Magdalen islands, the whole area of territory being quite large, but the number of inhabitants small. The district itself is incapable of much development, and the consequences as to making it a depot of trade for re-export do not appear to be important. It is mainly used as a point of outward shipment of fish and lumber, and of importation of spirits, groceries, and manufactured goods. These imports are not, however, apparently much beyond the consumption of the islands and fisheries of the vicinity. The countries from which they come are evidently transatlantic mainly, and not in great proportion from the United States. Whatever may be the advantages conferred on the fisheries and local interests of the vicinity, there does not appear to be any general importance attaching to the establishment of this as a free port.

Ex. Doc. 55-8

Imports at the port of Gaspé from countries other than Canada.

13047	1861.		1862.		1863.	
Articles.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Wines and spiritsgalls.	30, 913	\$20, 125	38,740	\$20,382	61, 301	\$33, 226
Coffeelbs. Sugarlbs.	11,133 121,489	1,464 8,226	17,766 244,582	3, 348 13, 635	39,516 142,676	6, 316 9, 031
Molasses galls . Tea lbs .	62,897 77,655	15,953 24,339	111,722 98,868	21, 988 35, 617	87,699 103,783	19,932 32,108
Tobaccolbs.	62,000	11,452	53, 667	17,207	50,995	15, 964
Clothing		13, 263 126, 835		16, 991 126, 024		12, 106 119, 854
Other dutiable articles		48,543		57,828		61,815
Free goods		104, 529		107,060		118, 271
Totals		374,729		420, 180		428, 623

Exports of the port of Gaspé to British and foreign ports.

Articles.	18	1861.		1862.		<b>3.</b>
Articles.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Fish, dry	75, 037 42, 499	\$415, 549 161, 203 18, 876 5, 360 19, 262 1, 477 2, 615 6, 135	184, 676 26, 252 78, 115	\$560, 948 35, 067 43, 298 17, 938 19, 609 3, 160 2, 564 8, 491	180, 964 39, 969 58, 360	\$603, 347 59, 754 36, 957 7, 820 31, 675 6, 157 3, 238 5, 904
Totals		630, 477		691,075		754, 852

A second and more important free port, as regards the commerce of the United States, was at the same time established at Sault Ste. Marie, and embracing the whole Canadian coast of Lake Superior and Lake Huron. The district has 400 miles of lake coast, and the adjacent islands are also included. Very little practical importance has resulted from the opening of this port up to the close of 1863; but its proximity to a rapidly developing country on both sides of the boundary indicates that it will interfere materially with the commerce of other districts should it continue a free port. The following were the imports for the three years of its establishment; but it is impossible to say what proportion was from the United States:

# Imports into Sault Ste. Marie from British and foreign ports.

Dutiable.	∕e 1861.		1862. 1863.			
Dampie.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Spirits	131 lbs. 8,748 lbs. 3,561 lbs. 50 lbs. 638 lbs.	26 4,648 963 25 113	8,718 gals. 399 lbs. 6,339 lbs. 1,286 lbs. 44 lbs. 5,845 lbs.	\$3,002 73 3,406 571 7 385	5, 078 gals. 3, 556 lbs. 14, 531 lbs. 7, 371 lbs. 115 lbs. 7, 287 lbs.	\$2,560 690 8,331 2,854 24 733
Sugar Molasses Soap Malt liquors Wines Clothing Woelles	214 gals. 7, 103 lbs. 1, 042 gals. 174 gals.	365 2,227	44, 371 lbs. 163 gals. 3, 035 lbs. 5, 488 gals. 413 gals.	2, 922 78 185 1, 259 628 4, 037	7, 310 lbs. 366 gals. 605 gals.	8, 902 516 147 1, 009 13, 415
Woollens. Cottons Leather manufactures. Hardware Glass and earthenware. Machinery.		25, 118 5, 719 1, 101 2, 672 255 1, 048		22, 293 6, 675 1, 482 5, 432 91 781		16, 834 7, 042 3, 190 4, 711 677 394 634
Iron and steel	47 tons.	1,299 503 5,616	47 tons.		28 tons.	4, 306 675 465 13, 457
Total dutiable Free goods Total imports		66, 515 26, 189 92, 704		22,833		88, 566 27, 306 115, 872

# Exports of the port of Sault Ste. Marie to British and foreign ports.

Articles.	18	61.	18	62.	1863.	
Articles.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
<b></b>		\$210, 471 5, 066 1, 401 125 160 17, 000 532 761	3,114 50	\$250, 468 228 4, 250 3, 020 420 46, 764 421 287	1, 495 3, 038 299	\$125, 176 245, 394 1, 479 1, 839 360 56, 029
Totals		235, 516		305, 858		430, 548

The trade of this port or district is evidently limited altogether to the local consumption and production of the few inhabitants at present occupying it. Its exports of copper and copper ore are the chief productions, and are three times the value of its imports.

The trade of the same port with Canada is very small, the imports and exports

being in-

	Imports.	Exports.
1861	<b>\$</b> 39, 179	<b>\$</b> 95
1862	41,743	74
1863	57, 199	253

The chief product, copper and copper ore, comes to the United States.

#### INTERNAL OR DOMESTIC COMMERCE

#### BETWEEN THE

# MISSISSIPPI VALLEY AND THE ATLANTIC STATES.

#### DATA-TREATMENT-GENERAL RESULTS.

In the division of this report relating to internal commerce it is assumed that the exchanges conducted within the limits of the United States have attained to a magnitude entitling them to the designation of commerce in the broadest and fullest sense of the term, and to the care and regard of the national authorities as commerce is with foreign countries.

Though these exchanges pass through no official record of valuation it is still assumed that the statistics of the transportation lines afford the basis of a

reasonably close approximation to a calculation of their value.

It is assumed that the carriage of produce or manufactures the average distance of three hundred miles from the producing point to the market of consumption, entitles such quantities and values to be ranked with the general mass of exchanges defined as internal commerce. This is limited, however, to transportation east and west, since that, more definitely than in other directions, represents natural movements from producers to consumers.

As a measure of this exchange between the east and the west, all quantities are taken which pass the line of the Alleghanies in either direction, including the extension of their line, or meridian, through Upper Canada. And an addition is made to the quantities reported as carried in through freight across this line, of one-half the way freight of the five great carriers eastward of the Alleghanies to tide-water. These carriers are the Erie canal, the New York Central and Erie railroads, the Pennsylvania railroad, and the Baltimore and Ohio railroad.

Assigning values to the quantities so taken, which are the quantities and market values of 1862, it is found that the aggregate value of westward commerce in that year, including the deliveries of merchandise of all classes at a distance of 300 miles from the Atlantic seaboard, was nearly the sum of \$616,000,000; and that the return freight, eastward, of inland produce and merchandise passing the line of the Alleghanies, attained the value of \$522,000,000. The total trade is, therefore, \$1,138,000,000.

As a general check on the calculation, it is estimated that a population of ten millions west of the Alleghanies is supplied with most of its merchandise by this westward carriage, and that they have taken, under circumstances of unusual activity and ability to supply themselves, fifty dollars in value each of

all classes of articles and representatives of value.

To represent this internal movement in such manner that an independent judgment may be formed of it by every one, the statistics of quantities transported in both directions are given in condensed form from the reports of the various transportation authorities, yet with enough detail to show precisely what the exchange is.

The commerce of the lakes is stated in the fullest manner from the trade reports of the cities on its borders. Their immense fleet of vessels, with the recent increase and present tonnage; the lines of propellers of recent establishment, and their railroad connections in transit and at the east, with the

statistics of shipment at western ports and of receipt at eastern terminal points, are embodied very fully. Calculations of value based on the quantities identified in this way, appear to sustain the calculations applied directly to the tonnage of the great roads and the Erie canal which complete the transportation from the west.

The receipts and shipments of all leading articles of produce are given at the chief ports and cities of the lake district, including Toronto and Montreal, in Canada.

The data used relate mainly to the year 1862. No earlier year is taken to represent our internal or domestic commerce proper; because, before the rebellion the import and export trade of the United States to a considerable extent traversed the southern ports; because it was a full year, but not excessive; and because in that year there was a very complete severance of the domestic commerce of the north from that of the south and from the foreign. The occasional comparisons with other years are made for specific and subordinate purposes.

The "year" intended in this division is the calendar; and the values are at the prices ruling in 1862, before any extraordinary rise had taken place.

#### INTERNAL OR DOMESTIC COMMERCE.

The extent of the territory of the United States is so great, and the diversity of production in its various parts so much beyond the ordinary diversity belonging to any single or continental government, that the exchanges conducted within its limits rise to the full measure of importance which belongs to commerce in its general sense. The articles exchanged are carried to great distances, and they are of the natural surplus of the districts from which they are taken, supplying a natural want in the districts to which they are carried. Subtropical staples are exchanged for the field crops and forest products of the coolest belt of the temperate latitudes in one direction; and in another the extremes of maritime and of continental interior climates are exchanged. Trade of this comprehensive character must be regarded as permanent, and as entitled to rank next to the highest in national interest and importance. If possible, it should be as regularly stated and as definitely known through authentic statistics, as the external trade of the country in imports and exports is known.

Russia alone, of European states, conducts a trade analogous to that of the United States between its various districts. Great efforts have at all times been made by that government to foster and encourage those inland exchanges, and much of the strength and of the display of accumulated resources which occasions have at various times developed in Russia, may undoubtedly be ascribed to its command of the products of an entire continental zone, and to its constant, though almost silent, interchange of these products from all points within the widely separated coasts that constitute its boundary. The other European states exchange very largely with their colonies, and almost wholly by sea; the statistics of this trade being regularly given as a branch of their foreign commerce. Strike from the commerce of England, France, Spain, and Holland, the trade they conduct with their own colonies, near and remote, and the volume would be greatly reduced. During the last twenty years the development of the interior of this continent, and of the new territorial area of the United States, has drawn a large share of the means, the energy, and activity which in European states finds its proper field of activity in foreign commerce, to the hitherto unnoted trade of the plains, the interior, and the Pacific coast. The district of the great lakes is alone a vast field for this display of commercial energy, and the Mississippi valley has long constituted another, and almost equal field. The railroad system connecting the Atlantic cities with the interior has recently developed the same general character, and has risen to gigantic importance as an agent in actual exchanges of merchandise. The tonnage movement of the great railroads from the interior eastward to the Atlantic cities in 1863

was little, if at all, inferior to the tonnage delivered by transatlantic shippin arriving at the ports of the entire Atlantic coast. The railroad freight tonnag reached a total of nearly 3,500,000 tons, and deducting from the shipping arrivals of the Atlantic ports a small proportion for that which came from American ports north or south of the United States in transit to Europe, the total remaining does not largely exceed the amount just stated.\*

The difficulty of assigning definite quantities and values to these internal exchanges is great, since there is no uniform system of record through which they pass. The railroads and canals are, with one exception, private corporations; and though they usually report with great fulness the quantities of the leading articles transported, values are given only in the case of the New York State canals. In many things these reports of the transportation companies are sufficiently full and clear for the purpose of calculating the values exchanged, and it is only necessary to institute a system of estimates, based on the known prices of leading articles. These are readily determined, and there appears no insuperable difficulty in making up calculated total values which will attain a reasonable approximation to accuracy. On the New York canals the precedent of estimating values per pound for freight of all kinds has been set for years in the official reports of the auditor general, and the results of such estimates have been accepted without question.

As a basis for the calculation, it is assumed that goods carried the distance of three hundred miles from the place of production to the place of consumption should be included in the account of domestic or internal commerce. Very large quantities of produce and of manufactured goods are carried much further than this in the United States, as in the very heavy shipments from New York and other Atlantic cities to Chicago, St. Louis, and other points on the Mississippi and Missouri rivers. Probably the assumption of three hundred miles as the minimum of distance would raise the average distance to five hundred miles, in consequence of the preponderance of freights of eight hundred to one thousand miles; so that it would be reasonable to assume two hundred miles as the minimum, and to include all transportation for this last-named distance in the general account. In regard to manufactured goods, domestic and foreign, sent west-

ward, the average distance for those sent to the entire region west of the Alle-

ghanies is little, if at all, short of eight hundred miles. The return trade eastward has a somewhat shorter line.

The calculation of values for this internal exchange must be made from the commercial statements voluntarily put forth by the transporting companies, or compiled by Boards of Trade for commercial information. These sources of information are much more abundant and uniform for the trade between the Atlantic coast and the interior, than for that between the northern and southern States, and along the Mississippi river and valley, north and south. The lines of transportation north and south are neither so regular nor so much pressed with constant business as those leading east and west. Vast as the freights were which were carried on the Mississippi, outward and inward, they were subject to great variations in successive years, and no trustworthy record of them has been preserved. At the east, the coasting trade was always the chief

The total tonnage entered in all the ports of the United States during the fiscal year mading June 30, 1863, was 7,255,076 tons. Deducting an aggregate of 3,050,369 tons wriving from Canada, (the larger share of which is mere ferry tonnage,) and also 273,635 has arriving at San Francisco and other Pacific ports, there remain 3,931,072 tons as the tal arriving from all quarters at all the Atlantic ports.

During the calendar year 1863 the Pennsylvania railroad delivered 704,171 tons at its stern terminus, while in 1862 the New York Central delivered 1,064,128 tons, and the c 971,332 tons. Adding to the last two an advance of 15 per cent. reported in 1863 r 1862, and the three sum up 3,044,960 tons. Adding 50J,000 tons for all others. Is, the total exceeds 3,500,000 tons.

reliance for carriage, and this was also subject to great and irregular variations. No entrances or clearances of cargo being ever required, the best that can be done is to roughly estimate it by the tonnage capacity of the shipping through which it was conducted.

With the progress of the age in perfecting railroads, the contrast between land and water carriage has been steadily reduced to smaller and smaller proportions, until even the lakes and rivers lying in the direct line of east and west carriage liave become merely the equals of the railroad lines. They are but portions of the general lines, and are preferred or rejected at intervals, according

to the temporary exigencies of business.

The more important mass of this internal commerce is over the broad northern belt occupied by the great railroad lines, and in which the great lakes, the New York canals, and the Ohio river now only divide the transportation with these roads. All these cross a natural line of geographical division between the east and the west at the Alleghanies, and the continuation of their line from the point where they cease as mountains, due northward, across the Erie canal, the New York Central railroad, and the Canadian lines of transportation, may be taken as of the same geographical significance. There is no line equally well defined in any other part of the United States over which the entire volume of natural exchanges now passes between the two sections. The trade of the Mississippi river has been, and must always remain, much less definite, since an alternative is offered at each extremity for transportation by other modes of conveyance. The outlet for western produce to foreign tropical markets geographically near the mouth of the Mississippi, is now in many respects more convenient by lake and railroad first to the Atlantic coast, than by the most unrestricted use of the Mississippi and the New Orleans markets.

The calculation of transportation east and west may be simplified by taking the entire carriage of the great leading lines, and rejecting that of the subordinate lines. In the entire carriage of the Erie canal the trade passing over Lake Ontario is embraced. A small proportion of the lake trade, which has been estimated by the best Canadian authorities at not more than ten per cent., passes northward of Lake Ontario, or goes out at other ports or outlets than the New York canals, or by railroad to Portland, Maine. This proportion can be taken directly from Canadian statistics, or can be added simply as a percentage on the total values of the lake trade otherwise made up. As there are lateral roads and canals, as well as intermediate lake ports, which represent fragments of the general trade east and west, and which deliver or receive their freight at points on the great roads far along their line from either terminus, it is a necessary and just simplification to take the entire business of the great lines, and reject the smaller ones altogether, as has been said. Thus the New York and Erie road has tributary lines on the north connecting it with Buffalo, with Lake Ontario, and with the Hudson river; on the south it has a great tributary leading from Central Ohio; the business of all being conducted between markets really separated by an average distance not less than three hundred miles.

For the measure of the trade between the east and the west, therefore, it is proposed to take the entire freight carriage of the Baltimore and Ohio railroad, the Pennsylvania railroad, the Erie and Central railroads, in New York, the Erie canal, the Welland canal, and the Grand Trunk railroad of Canada; or to estimate for such transportation on these last named as properly belongs to the trade entering from the United States, and again returning, as has been stated

above, viz: ten per cent. of the carriage of the Erie canal.

Before proceeding to give the statement of values so exchanged between the west and the east across the Alleghanies and their line continued northward, it may be proper to state at what other points this domestic commerce should be noted in order to obtain an adequate account of it. The coastwise trade of the Atlantic coast in part belongs to it, as does also the barge transportation

through the New Jersey canals, and through the Chesapeake and Delaware canal. But there are no railroad lines in the eastern States whose traffic would be included, beyond the amount which would be reached at the eastern extremities of the great lines before named. That which is local, or may be carried but fifty or one hundred miles on the eastern end of either of the great roads or canals, is again taken up by minor roads and carried to cities along the coast a distance sufficient to make up the distance assumed as the minimum. No eastern roads need, therefore, be taken into the account, if the entire movement

on the great lines before named is considered.

The coastwise trade is, in ordinary times, made up of elements that may be estimated with a fair approximation to accuracy. The coal of Pennsylvania is carried coastwise to the extent of near one-fourth the annual production. The products of the fisheries are, to the extent of two-thirds their total in quantity and value, also carried in the coastwise trade, embracing in this calculation the produce of the whale fisheries. The lumber of the southern States is carried northward, that of the Susquehanna eastward, and that of the coast of Maine southward, each in quantities and proportions which may be estimated. Naval stores, rice, and cotton were carried from the planting States in large quantities, as they undoubtedly will be again. Grain and flour from the James river, the Chesapeake, and the coasts of Maryland and Delaware, have been carried to the eastern States in great quantities. Lastly, the manufactures and machinery produced in all the New England States, New York, Pennsylvania, New Jersey, Delaware, and Maryland, have been carried coastwise to the entire south, from the Delaware bay to Texas. The value of these manufactures has always been large; and though the trade is now greatly checked, it constitutes a traffic which will revive promptly, and will attain far greater proportions hereafter than it has at any previous time.

In the west there are at least three central points at which exchanges are conducted rising to the full dignity of commerce. Cincinnati is the first of these, as a point of exchange between the States north of the Ohio, and those producing many things essentially distinct south of the Ohio. The hemp and tobacco of Kentucky are not, however, fully noted in the statistics of trade at Cincinnati. The cotton and iron of Tennessee come to the Ohio river only in small quan-

tities also.

St. Louis is the next general commercial centre the trade of which is not embraced in the account of exchanges between the east and the west. The entire trade of St. Louis, and of such points southward to the mouth of the Ohio river as are now increasing in trade through the Illinois Central railroad or other-

wise, should be taken into the exhibit of domestic commerce.

Chicago is a large receiving point, and a larger distributor both of agricultural produce and of manufactured goods than either of the cities first named, but a large share of its exchanges will be noted in the statistics of trade over the great railroad and lake lines. The exchanges here conducted are so extensive, however, that they should be given separately, subsequently estimating what proportion may be taken as included or not included in other statements of internal exchanges.

The Lake Superior trade, now only at the moderate proportions of ten or twelve million dollars in value shipped outward, and twelve millions (including mining machinery) shipped inward, is a distinct and notable item of trade. The copper

nd iron produced there are largely smelted and wrought at Detroit, Cleveland, Pittsburg, and Buffalo, but a small share of its products being shipped direct to the Atlantic cities. There is a considerable lumber trade of the upper lakes, and a trade in the salt, fish and local products of the State of Michigan which occupies a class of lake coasting vessels in a profitable and important business, which does not go much beyond the cities of the lake shores.

Beyond all these is the trade of Saint Paul and the northwestern border, and of Leavenworth and the great plains to the gold region; which constitutes a distinct

and very important division, not only for what it now is, but in view of its rapid expansion, and the enormous development it is soon to attain.

At the south, New Orleans was always a focal point for extensive domestic exchanges, conducted both coastwise and by the Mississippi river. We can now merely state to what these exchanges attained before the disturbances which have destroyed that trade for the time, and which leave it doubtful to what extent and in what time they will be resumed.

# SPECIFIC CALCULATION OF THE EXCHANGES BETWEEN THE EAST AND THE WEST.

#### I. WESTWARD FREIGHTS.

The reports of the Pennsylvania railroad are more full and complete as regards the details of articles carried than those of any other line of transportation so extensive, and they may therefore be taken as the best to initiate the calculation of values proposed. Prices may be assigned to almost every article in detail, if desired, and the total value may be so deduced, or an average may be taken with less labor which will closely approximate the same result. The general classification into which these articles are thrown is the same as that employed in describing the freight of the New York and Erie and the New York Central roads, and therefore a classified price, calculated to agree with the total derived from the average of all articles in detail, could be used with safety for all similar statements of freight aggregates. Thus the detailed list of articles appears to show that one third of the tonnage carried westward on the Pennsylvania road is properly described as dry goods, another third as drugs and groceries, and the remaining third as iron and heavy goods. If this division is correct, it is not material whether the values assigned per pound to each be absolutely correct, so that their total does not exceed the total deduced by a calculation of values for each article. For the year 1862 the westward freight of this road was as follows:

From Philadelphia to Pittsburg From Baltimore to Pittsburg	256, 204, 9	920 pound:	s, or	128, 102	tons.
	34, 206, 4	488 pound:	s, or	17, 103	tońs.
Totals	290, 411,	 408 ponnd	s, or		tons.

The schedule of articles shows a large preponderance of dry goods, drugs, medicines and dyes, groceries, boots, shoes, and hats, and similar articles of high relative value. It is well known that the maximum often assumed by carriers as the limit of value at which they will compensate shippers for goods lost in their care, is usually insisted upon by losers as being below their true value. This maximum is one dollar per pound; but as it is usually applied to other goods than those here distinguished as the third class, or heavy goods, it is but an incidental proof favoring an increase of the general average of prices. It is proposed to assume an average value of forty-three and one-third cents per pound for this westward freight; and in dividing it into three equal portions, to assign one dollar per pound to the dry goods, or highest class, twenty cents per pound to the drugs and groceries, and ten cents per pound to the iron and heavy goods.

<ol> <li>Dry goods</li> <li>Drugs and groceries</li> <li>Iron and heavy goods</li> </ol>	96, 803, 803 pounds. at \$1 per pound 96, 803, 803 pounds, at 20 cents per pound 96, 803, 802 pounds, at 10 cents per pound	\$96, 803, 803 19, 360, 761 9, 680, 381
Totals	290, 411, 408 pounds, at 431 cents per pound	125, 844, 945

This is of through freight only, and that which, being carried furthest, may be presumed to average the highest value per pound. During the year 1862 the price of many descriptions of dry goods had largely increased as compared with 1860, and this was particularly true of the classes most largely carried to the interior markets—cotton and cotton-mixed goods, coarse woollens, and leather manufactures. It is, in fact, probable that the values here assumed are too low, and that a total value higher by some millions would be more nearly correct for the year 1862; but as this year is exceptional as compared with former years, it may be better to retain a relatively low rate—one certainly not requiring abatements for over-estimate.

Next, the quantities carried locally on the Pennsylvania road from its eastern terminus to points along its line require to be considered. For reasons elsewhere stated it is assumed that these freights passing through, or departing from, each terminus, belong in the general account, since there is nothing taken for the freights of other roads connected with, and continuing the business of, the great lines. The record of the local freight of the Pennsylvania road is incomplete, in consequence of the employment on it of "cars of individual transporters," who do not make return of their business in the statements of the company, merely paying tonnage rates or mileage rates for their cars in bulk. For 1862 the total reported as carried by cars of the company from the eastern terminus westward, but not through to Pittsburg, is 91,565,194 pounds, to which may be added for the individual transporters at least enough to raise the aggregate to 100,000,000 pounds, or 5,000 tons, of 2,000 pounds each. Of this freight about one-eighth is dry goods, one-fourth groceries, and the remainder, five-eighths, heavy goods. For groceries and heavy goods it is perhaps necessary to reduce the prices taken in the former case, as follows:

<ol> <li>Dry goods</li></ol>	12, 500, 000 pounds, at \$1 per pound 25, 000, 000 pounds, at 15 cents per pound 62, 500, 000 pounds, at 6 cents per pound	\$12,500,000 3,750,000 3,750,000
Totals	100,000,000 pounds, at 20 cents per pound	20, 000, 000

These are minimum quantities and values, which should not be excluded from the account of movements westward. Probably the larger share of the articles have already been brought from points averaging a hundred miles beyond the eastern terminus of the road—New York and the New England States—and they are to be carried at least a hundred miles further, on the average, before being distributed to consumers.

The detailed tables which follow are given for their general value in illustrating the trade of the east with the interior. Were such details accessible for the great roads of New York, a similar diversity and corresponding general divisions would und obtedly appear. The Central road of New York carries a larger proportion of light and valuable goods, and the Erie road a larger proportion of heavy goods, the two together averaging very nearly the same in classification and in values with the Pennsylvania road.

### Articles carried westward on the Pennsylvania railroad.

### 1.—THROUGH TO PITTSBURG, FROM PHILADELPHIA AND BALTIMORE.

Articles.	1859.	1860.	1861.	1862.	1863.
	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.
Agricultural implements	225, 592	54, 935	38, 907	245, 393	105, 443
Agricultural products, not specified.	1, 838, 887	338, 690	567, 346	340, 682	1, 395, 198
Bark and sumae	160, 771	90, 085	26, 830	178, 237	3, 355
Barrels, empty, (oil barrels)	100, 111	324, 160	1, 870, 157	5, 670, 232	15, 724, 187
Books and stationery	2, 476, 417	1, 329, 651	715, 866	669, 073	1, 046, 125
Boots, shoes, and bats	8, 615, 496	8, 782, 194	4, 891, 408	4, 697, 429	5, 903, 451
Brown sheeting and bagging	8, 278, 049	3, 529, 048	6, 926, 162	4, 680, 925	1, 428, 234
Carriages and wagons	105 050	90, 085	26, 830 119, 323	178, 237	957, 624
Cedar and willow ware	105, 073	989, 196		254, 289	258, 213
Coffee	10, 615, 235	6, 781, 574	14,566,908	7, 665, 703	7, 968, 753
Confectionery and foreign fruits	3, 580, 979	2, 739, 882	2,784,837	435, 930	1, 678, 153
Copper, tin, and lead	2, 076, 608	5, 057, 332	3, 567, 482	2,702,560	7, 360, 764
Ootton	***********	109, 721	323,910	968, 310	21,800
Dry goods	57, 297, 296	61, 472, 760	43, 225, 689	73, 291, 468	50, 338, 43,
Drugs, medicines, and dyes	9, 413, 469	12, 837, 228	12,541,640	21, 336, 263	11, 375, 625
Earthenware and queensware		6, 620, 087	3, 305, 229	6, 260, 364	7, 922, 85
Feathers, furs, and skins		5,770		77, 805	28, 59
Fresh meats and fish				399, 251	75, 063
Flour and meal	264, 655			20, 399	2, 625
Furniture and oil-cloth	2, 453, 364	2, 789, 863	549, 391	2, 360, 482	2, 546, 57
Glass and glassware	1, 191, 785	1, 047, 644	548, 878	809, 127	522, 93
Grain of all kinds	2, 020, 335	6, 890		243, 832	60, 75
Grass and other seeds	276, 456	52, 864	143, 376	173, 870	75, 63
Green and dried fruits	214, 465	89, 078	86, 960	3, 219, 103	3, 718, 28
Groceries, except coffee	19, 286, 909	22, 850, 097	27, 184, 460	65, 107, 825	64, 854, 63
Guano and phosphate of lime	172, 159	17, 370		18, 221	10, 29
Hardware	10, 890, 368	10, 734, 309	10, 024, 622	9, 192, 983	21, 500, 52
Hemp and cordage	1, 926, 499	2, 718, 632	1, 574, 400	1,095,513	1, 285, 65
Hides and hair		183, 112	121, 442	328, 155	265, 94
Iron, pig and blooms		2007 224	2001, 110	655, 627	155, 32
rolled	1, 220, 102	1, 877, 535	1, 898, 189	2,591,217	3, 417, 20
radiroad	4, 462, 895	987, 210	35, 129	1, 945, 408	1, 613, 16
Leather		860, 268	2, 684, 536	2, 434, 852	741, 73
Lime and plaster		402, 857	331, 848	425, 732	363, 45
Machinery and castings	4, 763, 265	1, 211, 656	9, 074, 107	11, 896, 913	15, 829, 49
Marble and cement		2, 506, 359	2, 036, 545	2, 183, 337	5, 845, 65
				205 500	
Malt and malt liquors		111, 097	99, 230	385, 586	112, 20
Nails and spikes		134, 597	282, 220	221, 807	566, 87
Oil, (not coal or petroleum)		2, 226, 555	1, 544, 998	1, 477, 852	753, 23
Oysters		319, 710	799, 853	1, 756, 070	2, 044, 53
Paper	2, 849, 384	3, 275, 046	2, 012, 527	1, 635, 629	1, 367, 51
Powder	***************************************	************	685, 081	5, 975, 035	7, 603, 05
Salt		1, 908, 192	3, 561, 278	5, 803, 964	655, 37
Salt meats and fish	5, 276, 160	4, 544, 560	3, 349, 024	11, 284, 327	5, 522, 30
Soda-ash, (pot and pearl)	17, 228, 845	10, 916, 453	5, 066, 895	15, 701, 119	15, 745, 83
Soap and candles	363, 689	290, 204	191, 137	312, 194	297, 70
Tobacco and eigars		2, 806, 571	2, 725, 801	2, 454, 705	2, 643, 4
Tar, pitch, and rosin	1, 037, 648	1, 813, 038	452, 899	1, 177, 053	417, 1
Wines and liquors, foreign	4, 621, 154	3,842,798	2, 010, 596	1,049,508	131, 3
Whiskey and elechol	358 005	19, 520	30, 812	2, 821, 922	1, 857, 38
Woollen yarns	378, 436	259, 203	393, 953	374, 439	155, 73
Miscellaueous	1, 179, 822	797, 280	24,000	24, 752	260, 80
Government goods					1, 119, 98
Total pounds	207, 677, 029	199, 493 368	179, 835, 833	290, 441, 408	277, 656; 3
Total tons		99,747	89, 918	145, 206	138, 8

# Articles carried westward on the Pennsylvania railroad—Continued.

#### 2.—TO WAY STATIONS, FROM PHILADELPHIA.

Articles.	1859.	1860.	1861.	1862.	1863.
Agricultural implements	2, 204, 396 143, 156 961, 870 206, 845	Pounds. 224, 828 1, 212, 315 10, 495 831, 559 214, 419 129, 555	Pounds. 125, 475 864, 524 2, 450 755, 991 136, 894 1, 984, 095	Pounds. 137, 233 399, 419 11, 335 2, 226, 803 437, 382 145, 159	Pounds. 150, 887 630, 765 1, 430 951, 046 138, 449 101, 735

#### Articles carried westward on the Pennsylvania railroad—Continued.

#### 2.-TO WAY STATIONS, FROM PHILADELPHIA.

Articles.	1859.	1860.	1861.	1862.	1863.
	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.
Cedar ware	164, 222	192, 682	193, 968	213, 197	283, 890
Coffee	4, 864, 813	3, 134, 597	2, 243, 281	1, 256, 331	400, 763
Confectionery and fruits	1, 322, 815	1, 343, 511	917, 498	323, 235	265, 975
Coal	50, 277, 775	29, 004, 600	24, 965, 400	0.00, 200	15, 689
Copper, tin, and lead	1, 178, 455	979, 479	480, 868	423, 327	1, 288, 153
Cotton	3, 435, 105	4, 045, 264	353, 785	78, 662	85, 334
Dry goods	8, 440, 136	9, 557, 632	7, 817, 107	9, 508, 609	7, 246, 163
Drugs, medicines, and dyes	2, 120, 975	2, 720, 544	2, 154, 144	2, 212, 420	1, 409, 121
Earthenware and queensware	1, 343, 389	1, 353, 262	872, 734	1, 086, 448	1, 173, 072
Fish and meats, fresh	26, 573	1, 300, 202	2, 316	66, 030	73, 639
Flour	666, 853	196, 487	503, 244	193, 410	408, 875
Fruits, green and dry	42, 294	200, 578	553, 961	511, 582	556, 496
Furniture	1, 162, 129	1, 227, 535	943, 628	1, 562, 214	785, 249
Glass and glassware	676, 767	862, 195	542, 417	298, 284	402, 547
Grain of all kinds	798, 166	469, 697	386, 937	7, 059, 334	916, 957
Grass and other seeds	31, 522	50, 937	53, 494	65, 974	122, 030
Groceries, except coffee	29, 806, 037	26, 752, 162		14, 565, 927	
Guano and phosphate of lime	458, 162	520, 906	15,330,775	264, 424	23, 964, 692 421, 740
Hardware	4, 222, 821	3, 870, 895	689,736	3,796,848	6, 238, 060
Hides and hair	2, 684, 818	2, 038, 860	2, 675, 481 2, 575, 501	1,681,103	2, 066, 815
Hemp and cordage	630, 654	654, 352	134, 169	248, 329	198, 683
Iron, pigs and bloom	4, 577, 929	1, 921, 438	2,660,843	7,138,122	2, 288, 928
rolled	6, 313, 083	4, 812, 794	2,384,477	5,549,369	10, 444, 511
railroad	1, 103, 324	716, 155	437, 097	2,599,362	296, 718
Leather	531, 957	539, 269	751, 129	424, 761	348, 962
Lime and plaster	001, 001	1, 098, 898	816, 507	2,398,147	1, 114, 599
Live stock	735, 430	786, 700	1, 140, 015	415, 615	997, 050
Lard, lard oil, and tallow	528, 673	18, 543	14, 168	50, 431	59, 155
Lumber and timber	978, 439	1, 083, 081	1,362,840	354, 125	613, 067
Machinery and castings	4, 003, 670	3, 901, 548	3, 058, 830		7, 868, 548
Marble and cement	4, 541, 786	4, 658, 529	585, 550	5,560,790 2,999,678	3, 880, 611
Malt and malt liquors	1,077,621	1, 115, 094	3, 037, 113	491, 993	997, 959
Nails and spikes	475, 555	535, 821	497, 908	311, 612	1, 040, 798
Oil, petroleum	410, 000	000,001	30, 015	621, 837	376, 974
other	637, 355	1, 294, 755	928, 411	176, 616	201, 312
Oysters	442, 230	255, 071	249, 852	160, 539	399, 834
Paper and rags	3, 102, 244	2, 153, 132	1, 235, 125	1, 197, 467	1, 275, 873
Powder	5, 102, 211	2, 100, 102	252, 635	530, 185	828, 344
Salt	7, 289, 668	5, 900, 581	B, 796, 116	4, 429, 953	6, 383, 355
Salt meats and fish	6, 296, 887	4, 937, 215	5, 575, 495	3, 902, 399	4, 948, 640
Soap and candles	6, 349, 700	57, 679	0,010,400	127, 019	177, 763
Soda-ash	509, 005	196, 807	57, 470	221, 174	389, 869
Tobacco and cigars	1, 047, 998	863, 777	724, 975	779, 786	761, 844
Tar, pitch, and rosin	652, 327	615, 141	237, 254	71, 369	43, 652
Wines and liquors, foreign	1, 295, 971	927, 093	1, 207, 518	1, 059, 126	141, 750
Whiskey and alcohol	666, 700	886, 381	68, 700	807, 388	1, 908, 246
Wool and woollen yarn	427, 739	495, 135	217, 722	161, 230	228, 299
discellaneous		3, 227, 907	23, 680, 266	252, 092	452, 417
Government goods	7, 971, 828	0, 241, 301	20, 000, 200	202,000	2, 241, 636
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Total pounds	173, 733, 029	134, 604, 840	128, 267, 904	91, 565, 194	100, 999, 069
Total tons	86, 866	67, 302	64, 134	45, 782	50, 049

The local freight taken up at all points of the line for carriage beyond the mountains is unnoted in the previous calculation of through freights. This was in 1861 and 1862 as follows:

1861.—Coal, 23,947 tons; other merchandise, 114,126,409 pounds.

1862.—Uoal, 5,701 tons; other merchandise, 207,484,614 pounds. The portion of this taken up at stations east of the mountains may safely be

■ ssumed to be one-half, giving a value, at a minimum of five cents per pound, 
• f over \$5,000,000.

From the calculation of both branches of the local freight carried, that departing from the east to way stations, and that arriving at Pittsburg from way stations, it is clear that a sum not less than \$10,000,000 might be assumed as the value of that carried an average distance of three hundred miles from producer to consumer, and of \$5,000,000 for that crossing the line of the Alleghanies in the general east and west exchange.

Next in accessibility and fulness are the statistics of transportation over the New York Central road. Specific articles are named only in a very few instances, but a classification is adopted which distinguishes "Products of the Forest," "Products of Animals," "Vegetable Food," "Other Agricultural Products," "Manufactures," and "Merchandise"—terms too vague, as at present applied, to correspond with any commercial or financial usage. In the traffic westward the terms "Merchandise" and "Manufactures" largely predominate, and in that sent eastward the chief amounts are of vegetable food and products of the forest and of animals. For the freight going westward it is scarcely possible to separate and distinguish articles at all. The following table comprises the tonnage of such trade, as given in the reports of the company, for six years:

Through tonnage westward over the New York Central railroad.

Articles.	1858.	1859.	1860.	1861.	1862.	1863.
Products of the forest Products of animals Vegetable food Other agricultural products Manufactures Merchandise Other articles	Tons. 180 410 2 1,071 2,580 74,266 4,624	Tons. 88 673 924 1,414 2,737 102,001 6,001	Tons. 97 972 5 1,077 2,215 108,488 6,143 118,977	Tons. 43 873 13 863 3,245 104,750 6,154	Tons. 62 385 14 1,078 3,951 146,834 8,689	Tons. 71 1, 108 1 1, 335 16, 574 183, 490 11, 215 213, 794

#### Way tonnage westward over the New York Central railroad.

Articles.	1858.	1859.	1860.	1861.	1862.	1863.
Products of the forest	Tons. 4,788	Tons. 7,264	Tons. 6,832	Tons. 5,794	Tons. 6,955	Tons. 10,744
Products of animals Vegetable food	5,090	9, 297	. 10,958	10,014	8,585	1, 108
Other agricultural products	4,956 3,628	19, 368 5, 238	19,423 7,789	11,691 7,899	8,534 5,792	17,766 8,717
Manufactures	13,942 50,282	15,772 63,089	23, 543 71, 571	21,854 68,327	24,761 67,387	24, 852 76, 414
Other articles	20,538	29, 526	44, 955	44,754	40,278	43,769
Totals	103, 224	149, 554	178,928	170, 333	162, 292	191, 551

#### Totals way and through.

Manufactures	124, 548	18,509 165,090 79,793	25,758 180,059 91,108	25, 099 173, 077 88, 098	28,712 214,221 80,372	41,246 259,904 104,015
Aggregates	186, 357	263, 392	297, 925	286, 274	323, 305	405, 345

As this road runs parallel with the Erie canal, and is further relieved of heavy and cheap freight by other canals and by Lake Untario, no necessity appears to exist for a reduction of values for either division of the freight below the averages assumed for the through and way freight of the Pennsylvania road.

Under the assumption that way freights are properly included, for reasons before stated, the two totals of freights westward may be divided in three equal parts, to which the values before taken for dry goods, groceries, and heavy goods, respectively, may be applied. When put together, the "merchandise" amounts to two-thirds of the whole, or to 214,221 tons, out of 323,305 tons, which is sufficient proof of the generally high grade of the goods carried.

#### Values of through freight westward.

3	
53, 671 tons, at \$2,000	\$117, 342, 000
53, 671 tons, at \$400	21, 468, 400
53, 671 tons, at \$200	
161, 013 tons. Total value	149, 544, 600
Values of way freight westward.	•
20, 286½ tons, at \$2,000	.\$40, 573, 000
40, 573 tons, at \$300	
101, 432½ tons, at \$120	
162, 293 tons. Total value	. 64, 916, 800

By the calculation here assumed the total value of the westward freight of this road in 1862 was \$214,461,400—a sum which appears excessive. Yet the elements of the calculation are sustained by all the facts that can be obtained bearing on the quality and value of the goods sent westward by such mode of conveyance. The westward tonnage of the Erie canal, the associate of this line of transportation, which must, from the nature of the case, carry the larger share of cheap and heavy freight, has for years been officially estimated at the average value of 18 cents per pound. The total values here given for railroad freight average on all the classes about forty cents per pound—a little more than twice the rate assumed for canal freight. When the advance in values existing in 1862 is considered, this average price cannot be considered excessive.

#### Westward transportation on the Erie railroad.

The westward freight of the Erie railroad is not classified in the reports of that company, although the eastward freight is, sufficiently for all practical purposes. It is undoubtedly altogether similar to the business of the other roads, so far as the through freight is concerned. The way or local traffic is probably more exclusively or distinctively a local trade, and a greater portion of heavy and low-priced goods is carried. It is proposed, therefore, to take the same divisions applied to the other roads in valuing the through tonnage, and to assume for the local tonnage a classification and prices lower than those applied to the Pennsylvania line.

The tonnage westward for three years is stated as follows in the report:

Year.	Through.	Way.	Total.
1861	Pounds. 175, 567, 350 299, 793, 230 339, 840, 110	Pounds. 845, 567, 060 1, 106, 011, 030 1, 233, 210, 350	Pounds. 1, 021, 134, 410 1, 405, 804, 260 1, 573, 050, 460

Applying the calculation assumed for through freight, w	re have:
99, 931, 077 pounds, at \$1	\$99, 931, 077
99, 931, 077 pounds, at 20 cents	19, 986, 215
99, 931, 077 pounds, at 10 cents	9, 993, 107
	<del></del>
299, 793, 230 pounds. Total value	129, 910, 399

The way tonnage of this road undoubtedly requires a reduction to lower classes and values than those before employed. It reaches a very large aggregate for the year 1862, not less than 553,005 tons of 2,000 pounds. Of what chief articles this immense amount is made up, the reports of the company do not state; but it may perhaps embrace some considerable amounts of coal, stone, wood, or other freights of the lowest class, carried between points along its line. Assuming that 300,000 tons of the way freight is of this class, and not properly of goods exchanged between remote points of production and consumption, the remaining 253,005 tons may be taken as similar to the way freights before considered—one eighth being of goods worth one dollar per pound, one-fourth being worth 15 cents per pound, and the remainder six cents per pound, viz:

31, 626 tons, at \$2,000 per ton	
63, 252 tons, at \$300 per ton	18, 975, 600
158, 127 tons, at \$120 per ton	18, 975, 240
253, 005 tons. Total value	101, 202, 840
<u> </u>	

Stone, lumber, and coal, for local consumption, being thus excluded, the proportion of goods of a general character assumed to be carried, both for consumption along the line and for further distribution by the lateral roads connecting with Buffalo on the north and with Pennsylvania and Ohio on the south, does not appear unduly large. The values are large in the aggregate, it is true, but the business is enormous in comparison with any other interior line of land carriage in the world.

There remain to be considered the carriage of merchandise by the Erie canal, and such small portion as the Canadian lines carry westward—this last being really so small in tonnage westward that it hardly need be embraced at all. In eastward tonnage it is important, for many reasons which do not apply to goods going westward.

The Erie canal carried the following aggregates of freight westward for fourteen years to 1862, inclusive:

Year.	To Buffalo.	To Oswego.	Total.	Value at 18 cts. per lb.
	Tons.	Tons.	Tons.	
1849	68,020	20, 287	88, 315	\$31,793,400
1850	79, 405	35,091	144, 496	41, 218, 560
1851	99,918	74,981	174,899	62, 963, 640
1852	143, 787	76,012	219,799	79, 127, 640
1853	163, 192	98,560	261,752	94, 230, 720
1854	167,550	64, 329	231,879	83, 476, 440
1855	145,530	74,936	220, 466	79, 367, 760
1856	114,696	68, 817	183, 513	66,064,680
1857	74,728	43, 393	118, 126	42, 525, 360
1858	47,350	29,540	76,890	27, 680, 400
1859	72,767	26, 109	98,876	35, 595, 360
1860	72,030	47,652	119,682	43, 085, 520
1861	35, 278	17, 184	52, 462	18, 886, 320
1862	52,945	18,094	71,039	25, 574, 040

The valuation here made is that of the auditor general in the annual reports of the "Trade, Tolls, and Tonnage of the Canals of New York," the table just given being copied from that report for the year 1862.

It is apparent from this table that the business of the canal rose to higher proportions as a carrier of merchandise westward before the completion of the railroad than since that time. The railroads of that vicinity were first consolidated in a single organization and adapted to the purposes of successful freight business in 1853 and 1854—not completely until the latter year. The quantities and values attain their maximum, therefore, in 1853, and after this date they steadily decline from \$94,230,000 to \$25,574,000. No change in the price per pound assigned to this freight is made in the series of years of which wo here take account. It may be of interest to cite the values taken in earlier years, which were in 1836, '37, and '38, 12} cents per pound; in 1839, 15 cents; in 1840, 16 cents; in 1841, 18 cents; in 1842, 15 cents; and from 1843 to 1846, inclusive, 17½ cents. All subsequent to 1847, and including that year, was estimated, as in the table copied, at 18 cents per pound. A list of articles constituting the tonnage in 1862 is given, from which it is evident that the valuation per pound should be increased for that year. It appears that the chief articles are sugar, molasses, coffee, crockery, iron, iron manufactures, and general merchandise, the proportions of which are as follows:

Sugar	. 16,230	tons o	of 2,000	pounds.
Molasses			66	~ . "
Coffee			66	44
Iron and steel	. 2,198	"	"	46
Railroad iron	. 2,553	"	46	
Nails	. 994	"	"	"
Crockery	. 2,535	"	"	66
Merchandise	. 40,576	"	66	"

It is evident that these articles made up the bulk of the traffic in previous years as well as in 1862, and that the average value per pound was greater in that year than in 1860. No more direct effect of the increased duties on imports and the high internal taxes levied could be produced than upon the staples named above, and undoubtedly the 18 cents average of 1860 should be 22 or 23 cents at least in 1862. Assuming it at 23 cents, there is added to the value of the entire carriage of the canal the sum of \$7,103,900, making the total \$32,077,940, instead of \$25,574,040.

The general summary of quantities and values deduced from these several calculations presents the following aggregates, embracing only the three chief railroads and the Erie canal, and taking no account of various lines which carry a less proportion westward than they do eastward. A small estimate should be added for the business of the Baltimore and Ohio railroad, which is usually one of the large carrying lines, but which, in consequence of the interruption of its business then, caused by the war, had very little through trade westward during the year 1862:

•	Tons.	Value.
Pennsylvania railroad—Through	145, 205	<b>\$</b> 125, 844, 9 <b>4</b> 5
Way		20, 000, 000
Erie railroad—Through	. 149, 896	129, 910, 399
Way		101, 202, 840
New York Central railroad—Through	161,013	149, 544, 600
Way		64, 916, 800
Erie canal—Through	71,039	25, 574, 040
Totals	992, 451	616, 993, 624

Exclusive of 300,000 tons rejected as being merely local.

Adding a small estimate for the Baltimore and Ohio railroad, we have, approximately, 1,000,000 tons of merchandise carried westward from the seaboard to the interior, exclusive of merely local consumption, and of all deliveries not more than fifty miles from the eastern terminal points of the several great lines, and a value for this commerce of more than \$600,000,000.

It must be borne in mind, in considering whether these quantities and values are excessive or not, that several important partial or lateral outlets of this trade have not been noticed at all. The railroad from Portland, Maine, to Canada is one of these, the Champlain canal another, and the railroads of northern New York also add something, together furnishing a moderately large amount which, being shipped through Canada, reaches some port of the lakes to enter the States south or west of the lakes for consumption. The proportions of this trade are, under any aspect of the case, and with any abatements from these quantities and values which the best corrected judgment may make, so vast that they

cannot fail of due appreciation after being once brought to attention.

It is apparent that in this calculation quantities and values are embraced which do not pass the meridian of the Alleghanies for the exclusive consumption of the population beyond that line. Even if the limit of distance assumed were 300 miles, there would be from fifty to one hundred miles of the length of each of the New York lines east of this assumed meridian that would be supplied by a carriage far enough to constitute a part of the general trade. By making a deduction for such portion of, say twenty millions of dollars, the preceding estimates may be verified by another and wholly distinct test, namely, by computing the consumption per capita of the entire population of the Trans-Alleghany States and parts of States. Portions of New York and of Pennsylvania, portions of Kentucky and Tennessee, and all the remaining northwestern States this side the Rocky mountains, received their supplies of both foreign and domestic merchandise wholly through these lines during the year under consideration. The population of these States in 1860 was as follows:

	•
Ohio	2, 339, 511
Michigan	749, 113
Indiana	1, 350, 428
Illinois	1,711,951
Wisconsin	775, 881
Iowa	674, 91 <b>3</b>
Minnesota	172, 12 <b>3</b>
Kansas	107, 206
Missouri	1, 182, 012
Nebraska	28, 841
Estimate for other Territories	200, 00 <b>0</b>
Parts of New York and Pennsylvania	350,000
" " Kentucky and Pennsylvania	250,000

9,891,979

The natural increase on the reported population of 1860 would add something more, and it may safely be assumed that the population supplied beyond the Alleghanies in that year was in round numbers ten millions. The estimated value of the merchandise of all classes supplied to this population we have reduced to \$597,000,000, from which should further be taken an amount of special war material and public property probably above 15 millions in value, as here computed from its tonnage. The sum remaining to apply to individual consumption would then be near 580 millions of dollars, or fifty-eight dollars per capita of the population.

This is, of course, the consumption of both domestic and foreign merchandise, and it places upon the personal consumption of the people all the usual demand of valuable goods for ordinary public uses. The circumstances existing in all parts of the country for that year greatly stimulated the demand for articles required for other than ordinary personal use, for which it would be reasonable to make a deduction in comparing consumption with that of ordinary times.

It has been shown by the comparison of imports and population for a series of years, that the average annual consumption of foreign goods per capita in the United States has attained to ten dollars, for a period of ten years preceding

the war.

Year.	Imports con- sumed.	Population.	Consumption per capita.
1852	\$195, 656, 060	24, 604, 261	7.95
1853	250, 420, 187	25, 342, 388	9.88
1854	279, 712, 187	26, 102, 659	10.71
1855	233, 020, 227	26,885,738 27,692,310	8.67
1857	298, 261, 364 336, 914, 524	28, 523, 079	11.81
1858	251, 727, 008	29, 378, 771	8.57
1859	317, 873, 053	30, 260, 134	10.50
1860	335, 220, 919	31, 429, 891	10, 66
1861	315, 004, 728	32, 373, 388	9.73
Average of ten years			9,92

This consumption was calculated upon the basis of the entire population of the United States, of course including three and a half to four millions of slaves of the southern States. Excluding the slaves, and taking only the active population, such as are embraced in the northeastern States, the consumption per capita would be increased at least one half.

And again, the previous calculation is based upon the entry or invoice value of imports only, not including duties paid, or the cost of handling and shipment.

The values assigned to the freight carried are, of course, in excess, so far as they relate to foreign articles, being those which actually attach to the goods at the line of transit to their western consumers. For both the reasons here named it would be safe to assume that sixteen dollars for each inhabitant would represent the goods of foreign origin transported.

The greater portion of the goods carried, are, however, of the produce and manufacture of the eastern States. As some guide to the proportion of these, the census estimate of \$2,000,000,000 of domestic manufactures in 1860 may be taken. Deducting from this aggregate \$45,000,000 exported to foreign countries, there remains an amount consumed by 31,000,000 of inhabitants of \$1,955,000,000, or \$63 for each person. Here, again, the contrast between the slave and the free population requires an addition when applied to the people of

the northwestern States, increasing the same to \$70 or \$75.

Of this sum of \$75 worth of movable goods, of the classes usually exchanged from one State to another, it is probable that not more than one-third were made or produced in the section beyond the Alleghanies, and that two-thirds were sent there from the manufacturing east. Nearly all textile fabrics, cordage and leather manufactures, were carried from the east. Drugs, medicines, chemicals, iron, steel, and the finer manufactures of machinery, tools and cutlery, books, paper and paper manufactures, brass and copper manufactures, and manufactured clothing of all classes. Taking these proportions as correct, there are more than \$30 worth of all these domestic products consumed, and the division of values will be as follows:

Value of foreign produce consumed	350, 000, 000
	528, 546, 000

This classification of values consumed is only intended to aid the discussion by such light as may in this way be thrown upon it. There are no settled rules applicable to such cases, and the circumstances are in the present case, for many reasons, peculiar. The activity of trade and exchanges increases far more rapidly than the population has done for the past twenty years, a result in part due to the increased power of consumption and command of means by the people, and in part to the greater cheapness and promptness of transportation. The proportion of foreign values transported by these lines to the western States for consumption is largely increased in 1862 by the necessity to obtain sugar and coffee almost wholly from the Atlantic cities, instead of the Mississippi river, as in former years. The loss of New Orleans sugar is an important item, as the heavy tonnage of these articles in the following statement shows:

Tonnage of leading articles on the Erie canal, in 1862, to the several western States.

States, &c.	Sugar.	Molasses.	Coffee.	Iron man- ufactures.	Crock'ry & glassware.	
m 011	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
To Ohio	2,363	759	194	536	487	10, 430
Michigan	2,387	759	172	502	289	4, 173
. Illinois	7,750	1,807	418	1,477	1,029	13, 909
Wisconsin	1,980	1,017	174	2,372	440	5,756
Indiana	104	263	8	42	58	634
Minnesota	66	29	<b></b>	5	6	<b>2</b> 8
Iowa	101	53	15	331	95	640
Kentucky	28		l	60	1	438
Missouri	12	13		350	36	1,641
Canada	1,301	210	20	40	78	1,679
Total to other States	16, 230	4,958	1,005	5,735	2,535	40,576
Left in New York	11, 407	4,592	630	10, 294	1,550	36,258
Total moved from tide-water	27,637	9,550	1,635	16,029	4,085	76, 834

For this large way tonnage no estimate has been made to represent the general westward commerce, though by the most rigid rules of classification there would be a share of it coming within the definitions properly applying to these exchanges. Actual deliveries to consumers at points three hundred to five hundred miles from the seaboard would probably cover one-third of the way freight above described as being left in New York.

The Champlain canal is also a channel for large shipments to Canada, and in some cases for western localities through Canada. In the following table the entire movement of merchandise from tide-water by both the Erie and Champlain canals is given, distinguishing that going out of the State from that left within its limits, and giving also the internal movement westward on these lines, from one point to another along them.

## Movement of merchandise westward on the New York canals.

	TONNA	GE GOING W	ESTWARD I	ROM TIDE	WATER.	nent
Year.	By Erie canal.		1 2 1		Total from	nal movement westward.
	To western States.	Left in N. York.	To Vt. and Canada.	Left in N. York.	tide-water.	Internal Wei
836	38, 893 25, 291	67, 637 51, 799	5, 165 4, 573	6, 194 4, 821	117, 885 86, 484	10,006 8,293
.838		71, 287	5,631	6, 402	117,949	6, 341
839		75, 910	7, 291	7, 177	124, 575	7,711
840	22,055	70,979	5,981	6,945	105, 960	6,061
841 842	31,040 24,063	85,866 59,755	6, 813 4, 996	9, 122 5, 399	132, 844 94, 213	8, 213 7, 23
843	37, 335	63, 199	6, 709	6, <b>443</b>	113,686	5, 52
844	42, 415	78, 557	7,930	6,714	135, 616	6, 314
845		77, 883	8,837	8,404	144,742	6,70
<b>\$46</b>		85, 582	10,611	8,602	163, 125	6, 67
847	75,883	115,787	12, 475	11,040	215, 185	9, 70
848	84,872	124, 896	14,520	18,374	242,661	18,79
.849	87,899 115,045	122, 444 112, 446	17,086 15,882	9,406	236, 835 256, 499	18, 620 12, 87
851	177, 623	143, 410	17, 124	13, 126 11, 073	349, 230	16, 17
852	219,799	153, 182	14, 248	8,858	396, 087	24, 20
853	261,752	134, 932	13, 227	16, 490	426, 401	31,92
854	331,879	112, 366	6,583	21,084	371,912	34, 11
.855	220, 466	104, 257	4,473	13, 766	342, 962	31, 44
856	183, 513	139, 104	5,810	19, 498	347,925	23, 88
857	108, 125	60,815	11,603	7,616	188, 160	34,79
.858	76,890	61, 176	5,621	5,999	149,686	38,75
.859	98,876 119,682	56, 648 66, 247	6,582 11,537	7,558 8,071	169, 664 205, 537	41,51
861	52, 462	46,818	8,096	10, 225	117,601	44,82 17,49
862	71,039	61,503	3,598	10, 223	146, 226	21,70

Tonnage of "Manufactures," "Merchandise," and "Other articles," (not merchandise,) going westward from title-water.

Year.	Manufactures.	Merchandise.	Other articles.
1852.	34, 371	396, 087	92,969
1853.	39, 571	426, 401	118, 169
1854	40, 262	371, 912	137, 660
1855	40, 147	342, 962	132, 608
1856.	54, 775	347, 925	196, 398
1857	31,820	188, 160	167.08
1858	25, 047	149, 686	126, 216
1859	22,602	169, 664	137, 290
1860	32,030	205, 537	168, 196
1861	19,520	117,601	223, 13
1862	65, 340	146, 226	271, 397

## Westward transportation on the Canadian canals.

The westward movement on the Canadian canals is at present a part of the general carriage of merchandise from eastern to western markets within the United States. For reasons before stated, it is not proposed to calculate values

for this tonnage and add them to the totals previously made up, the way business of the great roads and of the canal being in part taken to cover these values. A large business is done on the Welland canal in articles originally from the United States and destined to markets south of the lakes. The following is the Canadian official account of the—

Westward or upward trade through the Welland canal.

_	10		1 10	co.
• .	18	61.	18	62.
From United States ports.	To Canadian ports.	To United States ports.	To Canadian ports.	To United States ports.
Agricultural implements and tools Apples and green fruit. Beef, pork, and beans. Bricks, cement, lime, clay, and slate Butter and cheese. Chalk and whiting. Coal. Coffee. Copperas. Corn. Cotton. Dyes. Earthenware and glassware. Fish. Flour. Furniture. Gypsum. Hemp. Horses, cattle, and sheep. Iron, nails, and spikes. Junk and oakum Leather. Mahogany. Marble. Molasses. Oats. Oils. Ores of iron Paints Pitch, tar, and turpentine. Rye. Salt. Ship stores. Soda ash. Sugar. Iron and steel Tobacco. Wheat. Whiskey Window glass. Other articles Lumber.	Tons.  2 7 4 76 2 1,568 3,029 17 1 2 5 5 5 2 2 57 5 1 3,596 39 45 136	70ns. 295 255 111 4,029 43 171 12,331 631 24 66 1,234 5714 305 9,558 52 13 8 916 99,558 52 13 8 916 92,976 338 875 72,672 47 308 2,140 325 39 22 4,293 200	Tons.  51 7 28 1211 4 1,7441 3,049 3 3 241 71 4 111 618 2,1551 107 5,307	Tons. 199 303 1 4, 2781 42 505 7, 038 3941 5 7, 038 3941 1, 208 2, 360 5571 687 333 29 14, 0811 1331 19 960 1, 346 433 6, 340 669 73 112, 928 278 7841 3, 7911 571 1901 579 9, 3931
Total	10,815	116, 240	14,9081	171,6731

Some portion of this tonnage is of articles of low value per ton, the least valuable being coal, iron ore, lumber, and salt. Iron ore is taken from mines in Canada near Kingston, and the salt is mainly the product of the works of central New York.

As this table gives the entire upward or westward trade of the Welland canal, it affords a striking proof of the preponderance of trade on that canal in articles carried from one market in the United States to another. The return trade eastward exhibits the same excess of freights destined to United States markets, as will appear in the table corresponding to this, illustrating transportation eastward.

#### II. TRANSPORTATION EASTWARD.

The castward freight over these great lines of transportation is in some respects better known and more readily determined as to both quantities and values than that carried westward. The chief items that compose it are well known staples of agricultural produce, each of which has been carefully calculated at all the points of shipment at the west, and of receipt at the east. For the last eight or ten years, however, the quantity of miscellaneous freight has been rapidly increasing, including a share of manufactured goods. The tables of the Pennsylvania road are again the best to illustrate the present condition of the trade, and a table of articles carried for five years to 1863 is here given, corresponding to the table of articles carried westward.

By a careful analysis of values of the specified articles of western freight sent eastward over the Pennsylvania railroad in 1862, it appears that the average, exclusive of coal, is very nearly ten cents per pound. The New York canal freight is estimated by the auditor of the canal department, in his annual reports to average two cents per pound in value; an average which is applied there only to the lowest grad s of western freight. Railroad freight is unquestionably far more valuable per ton than that now carried on the Erie canal. The freight carried over the chief New York roads is not stated in detail in their reports. The Erie road in part class fies the freight sent eastward from Dunkirk, but not its entire eastern business. Evidently the proportion of fourth-class freight is larger than on any other road, but as a great share of this is live stock, pork, beef and meats, the value is not so low as if grain was carried. Some of these weights and quantities are as follows, for 1862:

Live stock	111, 051, 918
4, 306 horses,	
Fourth-class freight	. 343, 943, 694
Miscellaneous freight	. 58, 116, 982
Flour, 1,078,102 bbls	215, 620, 400
Total pounds	
This is all from Dunkirk. The freight received from the At Western should be included also, but it is placed in the agg freight," and it is believed to be a just division to take one-half eastward as the proper associate of that classed as "through." therefore as follows:  Through eastward  Way eastward (one-half of 1,002,037,030)	regate of "way the way freight The totals are 942, 627, 210
	1, 443, 645, 720

The value of this, at ten cents per pound, is \$144,364,572.

The freight carried over the two great railroads of New York is not specified in detail in the reports of those roads. That of the New York central road is in part classified as products of the forest, of animals, vegetable food, and manufactures; but such distinctions are now only general and do not suffice to base estimates of value on. The division made in that report of aggregate tonnage eastward in the year ending September 30, 1862, is as follows:

	Tons.
Products of the forest	32, 462
Of animals	350, 050
Vegetable food	461.337
Other agricultural products	38, 375
Manufactures	63, 411
Merchandise	28, 884
Other articles	89, 609
Total tons	1, 064, 128
or pounds 212,825,600.  This distribution indicates a generally high grade of value. I animals cannot be less than twelve cents per pound on an average remaining classes, other than vegetable food, going much higher. I cannot be less than ten cents per pound.  Taking from the above aggregate one-half the way freight east remain—	Products of ge, and the the average
Through freight	6, 177 tons. 3, 975 tons.
Total 84	0, 152 tons.
The several great railroad lines, therefore, carried an estimated value eastward, across an assumed line of division between the west and t follows:	e of freight he east, as
The New York Central	0, 400
New York and Erie	

The New York Central	<b>\$168, 030, 400</b>
New York and Erie	
Pennsylvania	113, 000, 000
Pennsylvania	25, 000, 000
• •	
Total, four roads	450, 394, 972

With these total values of eastward freight by the great railroad lines should be connected the value of the eastward freight of the Eric canal, the details of which are given in subsequent tables. That value is officially stated by the auditor general for the year 1862 at \$72.131,136 for "property coming from other States" alone. The way freight is not taken into account. The summary of values transported eastward thus becomes:

By the four railroads	\$450, 394, 972 72, 131, 136
Grand total	522, 526, 108

The various railroads of Canada carried a portion of the western produce of the United States sent eastward to markets within the United States and for export; but as the account of way tonnage taken on the New York roads is large, it may be considered as merely covering the amount so carried by Canadian lines. Certain branches of the Central railroad of New York probably bring to it portions of the freight going by way of the Welland canal and Lake Ontario, and leaving that lake at Oswego. Some moderate amount is carried to the New York and Erie by its connecting roads to Buffalo. Together, the minor avenues of railroad carriage eastward, north of Pennsylvania, will complete the account, and sustain the aggregates above given under any possible diminution the calculation might require for the leading roads.

The following tables give the detail of eastward freight in very full and satisfactory form over the Pennsylvania road, which has been taken as the basis of the calculation. Values approximating as nearly as could be estimated from current prices were computed in detail on each of the items of this freight, the result being an average on the whole amount a fraction less than ten cents per pound. Possibly the resulting values are too great; but as the freights of these roads have been taken as representative quantities, and as much miscellaneous carriage of produce and merchandise eastward occurs which cannot be noted on either of them, the final sum of values is believed to be too small, rather

than too large.

Among the larger unnoted items is the freight of all kinds through Canada which returns to the United States at Oswego, Cape Vincent, Ogdensburg, through the canal to Lake Champlain, and over the railroads leading into Ver mont from Canada. Again, there are lateral roads carrying from various points to connect as way freight on some one of the great lines. The Erie road receives immense accessions in this way.

Cattle, sheep, horses, and all descriptions of live stock, also continue to be driven in large numbers from every part of the West, and over all the common roads of the count y, from the Maryland line to Lake Erie. The aggregate of their value is less now than formerly, so many take the railroads in preference; yet the total value of animals so moved cannot be less than two or three millions of dollars annually.

The calculation of eastward freights on the great lakes is given at length, and with the fulness which that most important trade demands, in the following separate section. From the statements of the total movement eastward, with which it closes, another estimate of values may be made, covering the business in flour and grain in 1862:

Flour	barrels 8,359,910, v	alue, estimated	\$50, 159, 460
	bushels50,699,130, va		
Corn	bushels32,985,922, v	alue, estimated	16, 492, 961
Other grain	bushels10,844,939, v	alue, estimated	5, 422, 470
_			
Total			135, 448, 803

It is difficult to make any further calculation on specific articles—provisions, metals, textile raw materials, or the very large value of animals.

# Articles carried eastward on the Pennsylvania railroad.

## 1.—THROUGH FROM PITTSEURG TO PHILADELPHIA (AND BALTIMORE)

Articles.	1859.	1860.	1861.	1862.	1863.
	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.
Agricultural implements	193, 508	115, 205	93, 755	22,810	88, 57
Agricultural products, not specified.	1, 629, 361	1, 403, 260	21, 069, 011	1, 421, 468	268, 997
Bark, oak	3, 555	4, 330	21, 000, 011	29, 627	3, 300
Books and stationery	393, 344	246, 050	170, 078	474, 059	165, 12
Boots, shoes, and hats					
Brown sheetings and bagging	4, 675 64, 279	13, 140	32, 295	160, 946	81,06
		6, 245	173, 315	1, 009, 770	141, 20
Butter and eggs	6, 457, 506	9, 135, 426	12, 510, 840	20, 178, 276	7, 366, 53
Carriages	***************************************	8, 395	877, 767	506, 958	21, 41
Cedar-ware	28, 141	5, 965	3, 150	460, 683	8, 62
Coal	927, 005	***********	421, 500	***********	********
Coffee	**********	1,095	**********	283, 488	6, 74
Copper, tin, and lead	1, 632, 104	1, 206, 057	3, 426, 235	1, 554, 184	1, 674, 72
Cotton	<b>■17, 897, 569</b>	<b>28</b> , 673, 305	23, 752, 849	14, 921, 387	19, 636, 07
Drugs and medicines	738, 491	1, 345, 775	1, 614, 243	1, 249, 814	321, 54
Dry goods	502, 503	674, 185	3, 601, 003	4, 364, 853	769, 83
Earthenware	399, 772	.58, 220	271, 155	397, 854	174, 40
Fresh meats and poultry	454, 443	2, 243, 847	3, 467, 629	4, 664, 130	7, 615, 17
Feathers, furs, and skins	101,110	356, 487	699, 835	381, 111	812, 22
Flour	-61 649 965	-65, 352, 948	202, 979, 055	186, 226, 963	109, 435, 85
Furniture	488, 095	520, 218	560, 875	816, 469	419, 33
	245, 991	442, 078			
Fruits, green and dry			1, 796, 960	1, 261, 105	1, 164, 89
Ginseng	122, 134	100, 388	95, 440	79, 340	29, 18
Glass and glassware	2, 555, 716	3. 245, 637	2, 777, 061	4, 511, 971	5, 657, 49
Grain, all kinds, not specified	<b>≈</b> 14 550, 235	34, 754, 447	95, 983, 853	79, 260, 660	72, 524, 06
Grass and other seeds	1, 928, 233	6, 453, 516	6, 428, 892	8, 143, 310	9, 859, 89
Groceries, not coffee	1, 424, 105	2, 101, 721	1, 239, 283	5, 953, 375	5, 002, 03
Guano and bones	258, 595	576, 219	588, 764	531,860	4, 236, 16
Hardware	528, 972	608, 948	678, 756	1, 906, 427	950, 34
Hemp and cordage	785, 484	795, 163	1, 373, 756	4, 250, 972	4, 283, 643
Hides and hair	2, 674, 210	1, 838, 378	1,827,959	1, 010, 704	2, 773, 03
Iron, blooms and pig	16,913			4,607	
rolled	176, 217	410, 941	747, 015	9, 266, 520	13, 686, 17
Lard, lard oil, and tallow	10, 486, 567	17 290, 731	28, 755, 069	57 020, 395	34, 294, 29
Leather	1, 703, 631	1, 759, 689	2, 686, 835	2 93, 587	1.830, 03
Live stock	<b>→65</b> , 103, 756	<b>→67</b> , 254, 680	152, 199, 358	226, 892, 011	270, 713, 39
Lumber and timber	568, 989	680, 425	605, 755	970, 290	2, 230, 80
Machinery and castings	838, 195		6, 379, 665	6, 233, 630	
		1, 211, 656			586, 30
Malt and malt liquors	1, 166, 124	439, 871	1, 953, 342	2, 687, 191	2, 443, 59
Marble and cement	374, 683	306, 587	183, 225	390, 167	408, 33
Nails and spikes		25, 884	172, 900	331, 634	348, 53
Oil, coal and petroleum	448, 860	13, 262, 674	28, 513, 591	140, 908, 276	196, 487, 72
other		(with enal oil)	354, 638	1. 307, 048	191, 41
Paper and rags	2, 453, 070	2, 573, 737	1, 028, 455	1, 124 873	2, 675, 35
Pot and pearl ashes	655, 247	587, 461	408, 973	541, 481	328, 14,
Powder			174, 886	3, 093, 138	3, 828, 21
Sult ments	31, 199, 251	<b>→42,068,444</b>	64, 692, 007	109, 189, 476	89 054 73
Soap and candles	1, 404, 535	969, 218	2, 221, 232	4, 488, 747	3, 107, 53
Straw boards		1, 028, 615		273, 020	553, 82
Tar, pitch, and rosin		25, 255	30,000	202, 875	2 466, 17
Tobacco	4, 192, 776	8, 259, 413	46, 463, 895	49, 615, 202	57, 301, 06
Wines and liquors, not specified	2, 100, 110	166, 922	2, 9 4, 097	3 428,887	401, 163
Whiskey and alcohol	11, 990, 226	<b>√25</b> , 364, 584	34, 200, 619	37 712, 244	28, 353, 141
	335, 365		9, 321, 144	5, 342, 711	
Wool and woollen yarn		5, 678, 520			5, 444, 984
Miscellaneous	277, 790	232, 763	37, 741	275, 601	391, 586
Total pounds	259, 533, 638	352, 014, 718	772, 878, 216	1, 005, 767, 988	973, 618, 981
Total tons	129, 767	176, 007	386, 439	502, 884	486, 810

## 2.—FROM WAY STATIONS TO PHILADELPHIA.

Articles. 1	859.	1860.	1861.	1862.	1863.
Agricultural products, not specified.  Butter and eggs	unds. 234, 150 650, 307 495, 595 91, 569 853, 843 92, 474 243, 089 131, 001 396, 464 33, 665	Pounds. 2, 927, 484 5, 541, 536 5, 732, 257 124, 483 244, 562, 139 29, 295 164, 925 1, 296, 847 49, 718, 700	Pounds. 2, 210, 179 5, 135, 324 2, 825, 858 517, 489 220, 310, 372 74, 976 827, 380 51, 077, 947	Pounds. 251, 145 7, 164, 552 1, 688, 044 316, 275 305, 102, 941 41, 263 36, 961 966, 079 45, 477, 686	Pounds 7, 646, De4 3, 824, 604 1, 532, 937 367, 9322, 967 890, 813 840, 75 65, 322-5, 57 85, 679

# Articles carried eastward on the Pennsylvania railroad—Continued.

#### 2.—FROM WAY STATIONS TO PHILADELPHIA.

Articles.	1859.	1860.	1861.	1862.	1863.
	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.
Fertilizers	203, 700	286, 656	458, 598	277, 620	622, 507
Fruits, green and dried	257, 077	62,017	166, 878	142, 665	5, 150, 782
Furniture	529, 771	602, 608	344, 001	439, 909	785, 737
Fresh meats and poultry	1, 244, 163	892, 093	651, 348	1, 422, 144	862, 263
Glass and earthenware	34, 468	15, 148	25, 266	22, 159	15, 674
Grain, all kinds	47, 441, 734	45, 037, 736	39, 425, 916	68, 160, 045	43, 299, 742
Grass and other seeds	1, 859, 331	2, 473, 039	1, 206, 505	2, 271, 139	2, 961, 873
Groceries, all kinds	377, 644	67, 042	216, 376	396, 414	11, 266, 845
			393, 226	955, 696	1, 545, 370
Hardwate	1, 075, 911	438, 091 27, 365	119, 616	27, 422	188, 863
Hides and hair	27, 638		15, 427	33, 342	81, 892
	81,044	146, 507	3, 614, 736		
Iron, blooms and pig	5, 172, 488	2, 736, 225		7, 477, 326	4, 380, 387
rolled	6, 861, 486	14, 483, 531	13,009,505	17, 432, 981	21, 288, 930
railroad	158, 596	5, 663, 807	5, 210, 450	*************	53, 458
machinery and eastings	586, 617	675, 085	432,661	1, 107, 146	1, 017, 856
Lard and tallow	341, 352	294, 049	491,384	450, 411	405, 121
Leather	3, 451, 951	3, 572, 548	3, 269, 997	3, 055, 798	4, 077, 553
Live stock	33, 731, 504	26, 999, 143	25, 999, 770	35, 203, 327	36, 871, 940
Lumber and timber	57, 891, 445	60, 078, 974	44, 200, 390	68, 039, 656	97, 027, 154
Marble and cement		1, 142, 767	3,315	56, 585	10, 556, 281
Malt and malt liquors	23, 254	63, 758	21, 535	168,056	1, 993, 009
Marketing		1, 794, 557	1, 373, 729	3, 301, 146	
Nails and spikes	1, 349, 639	3, 246, 958	856, 715	915, 062	1, 184, 359
Paper and rags	1, 670, 674	2, 179, 217	1, 351, 846	1,417,213	2, 180, 177
Powder				523, 303	438, 127
Salt meats		346, 548	111, 965	119, 786	1, 578, 896
Straw boards	141, 460	1, 657, 265	135, 450	348, 670	627, 170
Tobacco		1, 303, 007	998, 016	2,073,988	3, 899, 757
Tar, pitch, and rosin	103223.0001233	7		181, 451	11, 178
Nickel ore	181,800	173, 200			
Wines and liquors		44, 603	34, 845	604, 514	1, 176, 716
Whiskey and alcohol	8, 137, 567	6, 215, 533	1, 967, 706	3, 932, 584	2, 936, 380
Wool and wool yarn	258, 618	294, 703	994, 876	529, 771	2, 230, 569
Miscellaneous	2, 509, 260	4, 004, 824	522, 607	72, 254	990, 819
Total pounds	446, 793, 507	497, 122, 713	430, 110, 438	582, 232, 162	710, 426, 856
Total tons		248, 561	215, 055	291, 116	355, 213

## 3.—FROM PITTSBURG TO WAY STATIONS.

Articles.	1861.	1862.	1863,	
	Pounds.	Pounds.	Pounds.	
gricultural implements	666, 938	375, 029	211, 464	
gricultural products, not specified	1, 965, 307	427, 520	212, 614	
ooks, &c	29, 561	21, 649	44, 800	
oots, shoes, and hats.	41, 028	65, 966	28, 727	
atter and eggs.	21, 474	21, 448	12, 503	
arriages	150, 935	62, 414	67, 530	
edar-ware	129, 498	157, 112	236, 036	
oal oil, petroleum	1, 587, 979	6, 407, 311	4, 146, 609	
offee	346, 767	124, 303	144. 465	
onfectionery and foreign fruit	94, 062	69, 518	82, 043	
opper, tin, and lead	154, 388	156, 227	175, 212	
otton	28, 100	274, 508	187, 778	
rugs, medicines, and dyes	455, 482	239, 904	119, 267	
ry goods	697, 184	689, 393	318, 960	
arthenware and China.	167, 207	- 211, 984	121, 06	
eathers and furs	6, 567	11.716	5. 57	
lour /	6, 026, 740	6, 163, 337	5, 169, 67	
resh meats and poultry	39, 993	23, 760	116. 757	
urniture	566, 484	698, 879	786, 536	
ruits, green and dry	338, 072	197, 776	948, 526	
lass and glassware	424, 742	449, 793	738, 07	
rain of all kinds	1, 428, 960	1, 883, 985	5, 701, 639	
rass and other seeds	39, 065	27, 374	241, 19	
Processes, except coffee	3, 087, 078	2, 589, 259	3, 704, 343	
lardware	565, 014	578, 451	2, 068, 54	
lemp and cordage	261, 285	31, 926	44, 77	
lides and hair	1, 079, 916	562, 901	1, 652, 28	
ron, pig and blooms	593, 026	708, 768	120, 48	
rolled	2, 145, 058	3,173,328	3,655,8	
railroad	<b>9</b> , 486, 083	6,215,300	77,707,	

# Articles carried eastward on the Pennsylvania railroad—Continued.

#### 3.-FROM PITTSBURG TO WAY STATIONS.

Articles.	1861.	1862.	1863.
	Pounds.	Pounds.	Pounds.
fron ore	*************		2, 947, 912
Lard, lard oil, and tallow	178, 666	332, 887	815, 282
Leather	37, 494	98, 119	47, 798
Live stock	-89, 940, 900	76, 545, 856	83, 498, 462
ime and plaster	50, 184	20, 100	29,466
umber and timber	3, 017, 720	3, 893, 291	2, 506, 658
Machinery and castings	1, 056, 034	1, 113, 135	1, 335, 239
Malt and malt liquors	1, 054, 075	835, 727	1, 643, 777
farble and cement	343, 606	234, 327	930, 492
Valls and spikes	1, 037, 463	851, 262	1, 166, 893
Oil, not coal		18, 739	23, 009
Paper and rngs	991, 426	322, 474	797, 89
Pot, pearl, and soda ash		8, 140	19 78
Powder			3, 276, 52
Salt		218, 208	340, 13
Salt meats and fish	2, 567, 907	3, 044, 513	2, 877, 90
Soap and candles		224, 992	269, 58
l'obacco		444, 363	994, 74
Wines and liquors, foreign		72, 628	14, 36
Whiskey and alcohol		6, 303, 586	8, 500, 7
Wool and woollen yarn		43, 413	61, 4
discellaneous		131, 358	43,5=
Total pounds	139, 754, 173	128, 476, 311	154, 388, 8
Total tons	69,877	64, 238	77,1

# Through tonnage eastward over the New York Central railroad.

	1858.	1859.	1860.	1861.	1862.	1863
Products of the forest Products of animals Vegetable food. Other agricultural products Manufactures Merchandise Other articles	Tons, 1,709 104,257 114,032 1,818 3,733 361 3,365	Tons, 2, 142 112, 210 101, 288 8, 171 3, 817 1, 458 5, 155	Tons. 2,408 133, 241 133, 988 5, 668 6, 628 2, 837 8, 759	Tons, 2, 201 166, 678 223, 179 15, 054 14, 683 2, 808 11, 353	Tons. 2, 141 254, 994 287, 231 20, 959 17, 497 5, 536 28, 819	Ton 8.26 285, 318 241, 036 35, 541 13, 910 22, 062 11, 240
Total	229, 275	234, 241	293, 529	435, 956	616, 177	610, 933

# Way tonnage eastward over the New York Central road.

Products of the forest. Products of animals Vegetable food. Other agricultural products. Manufactures Merchandise Other articles	62, 319 182, 517 11, 856 27, 684 9, 573	25, 660 81, 987 128, 171 15, 273 34, 710 12, 234 38, 651	32, 968 78, 191 190, 456 24, 635 44, 870 18, 691 46, 918	31, 272 74, 399 206, 679 23, 525 40, 815 16, 698 51, 684	30, 321 95, 056 175, 106 17, 416 45, 914 23, 348 60, 790	40 188 100 161 146 577 26 774 33 639 28 399 57 588
Total	349, 775	336, 686	436, 729	445, 072	447, 951	433===, 396
Total	349, 775	336, 686	436, 729	445, 072	447, 951	433===, 3

# Totals way and through.

Manufactures Morchandise All other classes	9,934	38, 527 13, 692 518, 708	51, 498 21, 528 657, 232	55, 498 19, 506 806, 024		55, 539 55, 371 94, 349
Aggregates	579, 050	570, 927	730, 258	881, 0928	1,064,128	1,04-250

## EASTWARD PREIGHT OVER THE ERIE CANAL.

# Tons arriving at tide-water by way of the Eric canal, the produce of the western States or Canada.

Year.	Products of the forest.	Products of Agriculture.	Manu- factures.	Other articles.	Total.
1836	5, 400	48,000	654	165	54, 219
1837	7,637	47,546	471	601	56, 255
1838	9, 231	72,972	500	530	84, 233
1839	28, 644	91, 369	801	857	121,671
1840	21, 241	134,600	1,267	1,040	158, 148
1841	45, 398	173, 437	3,702	1,639	224, 176
1842	31,068	185, 898	2,659	1,851	221, 477
1843	36,775	214,655	2,077	2,869	256, 376
1844	68,088	236, 155	853	2,929	308, 025
1845	91, 235	206, 422	2,565	4,320	304,551
1846	87,010	410, 111	2,926	6,873	506, 830
1847	117, 323	683, 138	5,508	6,871	812, 840
1848	142, 433	489, 478	5,560	12,683	650, 154
1849	214, 259	535,538	6,146	12,716	768, 659
1850	328, 062	491,810	7.848	22,519	850, 239
1851	368,752	687, 694	14, 471	15,375	1,086,292
1852	336, 892	778,818	21,642	14,626	1, 151, 978
1853	444, 080	727,655	23,355	18,600	1,213,690
1854	380,677	677,695	10,640	25,379	1,094,391
1855	348, 215	709,653	10,239	24,769	1,092,876
1856	835, 797	856, 147	2,851	17,755	1,212,550
1857	436, 604	548, 374	10,078	24,942	1,019,998
1858	391, 139	833, 929	19,085	28,946	1,273,099
1859	550, 405	420, 897	8,598	54,863	1,034,763
1860	647,705	1, 177, 001	5,808	66, 461	1,896,975
1861	325, 230	1,761,932	18,248	53,015	2, 158, 425
1862	563, 346	1,968,441	14, 170	48,880	2,594,837

# WAY FREIGHT EASTWARD OVER THE ERIE CANAL.

# Tons arriving at tide-water, the produce of New York, by way of the Erie canal, including the contributions of the lateral canals.

Year.	Products of the forest.	Products of Agriculture.			Total.
1836	208, 769	117,870	10, 152	28, 105	364, 901
1837	174, 207	98, 172	7,879	51, 193	331, 251
1838	189,733	101,053	6,729	38,501	336, 016
1839	157,075	63,713	5,885	37,914	264, 596
1840	119, 352	159,823	5,388	24,613	309, 167
1841	192, 121	92,483	9,076	14,663	308, 344
1842	125, 623	102,030	7,746	23,273	258, 672
1843	202, 810	124, 313	21,465	30,381	378, 969
1844	288,786	135, 171	27,579	40,255	491,791
1845	328, 955	224, 032	40,619	61,433	655, 039
1846	320,838	202,474	31,857	45,493	600, 662
1847	328, 652	192, 224	20,937	76,596	618, 412
1848	264, 549	184,714	19, 250	65,668	531, 183
1849	227,847	200, 471	18, 399	51,348	498,068
1850	269, 894	200, 493	15, 217	35,566	521,620
1851	183, 593	168, 433	15, 401	54,958	422, 385
1852	290, 574	136, 549	14,232	51,366	452,728
1853	391, 224	168, 017	20,045	58, 462	637, 741

Tons	arrining	at ti	de-water.	the	moduce	of	New	York.	&c.—Continued.
40100	arreens	40 00	wc-water,	0,00	produce	עצי	11000	TO1 10,	go. — Commucu.

Year.	Products of the forest.	Products of Agriculture.		Other articles.	Total.
1854	357,690 220,865	148, 330 43, 624	16,440 22,320	79,707 41,030	602, 167 327, 839
1855 1856	173,608	118,164	24,725	58,083	374, 580
1857 1858	66, 824 147, 511	68, 381 23, 421	13,747 17,843	48,249 34,813	197, 201 223, 588
1859 1860	226, 450 166, 687	84, 107 120, 226	14,920 15,135	85,917 77,038	311, 394 379, 086
1861	104,094	109,791	7,516	69,783	291, 184
1862	143, 246	118,906	5,419	54,686	322, 257

#### TRANSPORTATION EASTWARD ON THE GREAT LAKES.

The commerce of the great lakes might of itself be taken as the measure of the internal exchanges of the northern States east and west, adding to its quantities about half the freight of the Erie railroad, and the whole carried on the Pennsylvania Central and the Baltimore and Ohio roads. But as the business of the Erie canal and the New York railroads is somewhat more definitely stated, and as nearly all the produce and merchandise moved on the lakes goes finally over one or the other of these lines, the calculations of lake commerce which here follow are regarded as duplications of the quantities and values previously given. It will be seen that they sustain the aggregates first taken, and furnish evidence that cannot reasonably be doubted that these exchanges between the east and the west constitute the most gigantic system of internal commerce the world has known.

The shipping employed on the great lakes has had various alternations of fortune, being sometimes highly profitable, and therefore stimulated to great development in both sailing and steam vessels. It first began to be conspicuous in 1833, and rose rapidly in the five years succeeding to 50,000 tons. In 1843 an increase again began, which, with but one or two partial reverses, as in 1857, has continued to the present time. An immense and highly profitable business has been done by lake shipping in the carriage of grain and flour during the last four years, beginning with the fall trade of 1860, the consequence of which was a great increase of building in all classes of vessels adapted to the trade. The following table shows the high prices paid for freight on wheat from Milwaukie and Chicago to Buffalo during the months of navigation from 1859 to 1863. It is taken from the report of the Chamber of Commerce of Milwaukie for 1863.

Table showing the monthly range of freights on wheat to Buffalo, in cents per bushel.

April 6 a 8 10 a 8 9 a 7  May 6 a 10 10 a 5 8 a 9  June 7 a 5 1 5 a 10 10 10 a 5  July 6 a 4 8 a 10 a 8 9 a 7  August 5 a 13 5 a 9 4 a 6  September 11 a 15 14 a 8 6 a 7  Outshop 15 a 14 a 8 6 a 7	Months.	1859.	1860.	1861.	1862.	1863.
November	Aay. une (uly kugust eptember October	7.22		6½ a 10 7½ a 5½ 6¼ a 4 5 a 13 11 a 15 15½ a 24	10 a 5 5½ a 10 8½ a 10 5 a 9 14 a 8 8 a 17	8 4 9

These prices are much above the average in previous years, and they have developed the lake shipping to an unprecedented extent. The following table is the official record of tonnage existing at all the ports of the lakes and St. Lawrence river at the close of each year from 1830 forward:

TONNAGE OF VESSELS OF THE UNITED STATES, OF ALL CLASSES, EMPLOYED IN THE LAKE TRADE.

The annual totals of registered and enrolled tonnage at all the lake ports, officially reported to the Treasury Department.

Tons.	Tons.
1830 7,728	1847 134, 659
1831 8,879	1848160, 250
1832 12,738	1849
1833 15, 226	1850186, 790
1834 19,044	1851200, 507
1835 29,709	1852
1836 32,000	1853
1837 37, 480	1854 286, 564
1838 49, 159	1855
1839 46, 935	1 36
1840 48, 262	1857
1841 54, 569	1858
1842 58, 808	1859
1843 66, 938	1860
1844 73, 124	1861
1845 86, 071	1862
1846	1863

The tonnage here recorded includes all descriptions of enrolled tonnage in river and canal trade, and it therefore exceeds the amount actually employed in east and west transportation. There is also a small abatement to be made on account of the character of the official record, the law requiring the name and tonnage of each vessel to be retained until official notice of its loss or transfer is received. On this account perhaps fifty thousand tons is of vessels lost or transferred to other districts, the exchange of papers in regard to which is incomplete.

Perhaps the best record of the vessels and tonnage actually employed in this trade is that made up by the western Boards of Trade, great care being taken to perfect this record at Chicago, Milwaukie, Detroit, Toledo, Cleveland, Buffalo, and Oswego. The Chicago Board of Trade make the following report of both American and Canadian shipping in the lake trade in their report for 1862:

Table showing the number, class, tonnage, and valuation of vessels, American and Canadian, engaged in the commerce of the lakes, 1858 to 1862.

ed.		AMERICA	n.		CANADI	AN.
Class.	No.	Tonnage.	Valuation.	No.	Tonnage.	Valuation.
1858—Steamers	72	48, 031		67	24,784	
Propellers	113	56, 994		14	4, 197	
Tugs	69	6,366		5	415	
Barks and brigs	129	42,592		37	10,793	
Schooners	830	177, 170		212	32, 959	
Total	1,213	<b>3</b> 31, 153		335	73, 148	
a.	60	40.040	A1 880 000		01 400	<b>A</b> 000 000
1659—Steamers	68 118	46, 240	\$1,779,900	54 16	21,402	\$989,200
Propellers	72	55,657 7,779	2, 217, 100 456, 500	17	4, 127 2, 921	140,500 184,800
Tugs Barks	32	9,666	482,800	15	5,720	134,000
Brigs	64	30, 452	456,000	14	3,295	78, 400
Schooners	833	173, 362	4, 378, 900	197	32, 198	778, 300
Total	1, 198	323, 156	. 9,811,200	313	69,663	2, 305, 200
,						
1860-Steamers	75	47, 333	2, 439, 840	77	25,939	1,499,680
Propellers	190	57,210	3, 250, 390	27	7,289	407, 290
Barks	44	17,929	584, 540	23	7,882	246, 480
Brigs Schooners	76 831	21,505 172,526	484, 250 5, 233, 085	16 217	3, 815 31, 792	94, 380 898, 560
Total	1,216	316, 503	11,992,105	360	76,717	3, 146, 390
		40,000	1 400 000		01 108	1 010 000
1861—Steamers	65	42,683	1,489,800	63	21, 107	1,019,200
Propellers	107 91	50, 018 9, 155	2, 123, 000 565, 700	15 22	4,562 4,842	176,000 202,300
Tugs Barks	48	19,616	469,000	19	7, 153	188,500
Brigs	75	22, 124	435, 900	15	4,223	101,000
Schooners	843	180, 357	4,525,000	222	33,771	822, 300
Total	1,229	323, 953	9, 608, 400	356	75,658	2,509,300
1862—Steamers	66	43,683	1,403,800	64	28, 104	1,020,200
Propellers	122	52, 932	2,344,800	16	5, 154	181,000
Tugs	132	17,280	922,200	22	8,482	202, 300
Barks	60	26, 555	786,800	22 14	7,871 4,223	224, 500
Brigs Schooners	75 908	22, 124 199, 423	466,700 5,439,800	229	35, 062	107,000 872,500
Total	1,363	361,997	11, 364, 100	367	88,896	2,607,500

At Buffalo the report of E. P. Dorr, secretary of the Board of Lake Underwriters for 1862, shows the following numbers, tonnage, classes, and value of vessels engaged in the lake trade:

Comparative statement of the tonnage of the northwestern lakes and the river St. Lawrence on the first day of January, 1862 and 1863.

		1862		1863.				
Class of vessels.	No.	Tonnage.	Value.	No.	Tonnage.	Value.		
Steamers Propellers Barks Brigs Schooners Sloops	147 203 62 86 989 15	64, 669 60, 951 25, 118 25, 871 204, 900 2, 800	\$2,668,900 2,814,900 621,800 501,100 5,248,900 11,850	143 254 74 85 1,068	53, 622 70, 253 33, 203 24, 831 227, 831 667	\$2, 190, 300 3, 573, 300 982, 900 526, 200 5, 955, 550 12, 770		
Barges	1,502	383, 309	11, 862, 450	3 1,643	3,719	17,000		

The following are the numbers and tonnage of each class owned and registered in the district of Buffalo:

Class of vessels.		1859.		1860.		1861.		1862.
· · ·	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
Steamers Propellers Tugs Brigs Brigs Schooners Sloops, &c.	12 49 30 8 17 133	10, 198 29, 046 2, 810 4, 045 5, 611 34, 668	13 57 32 10 18 135	10, 266 33, 255 2, 774 4, 834 5, 555 33, 475	9 48 36 9 19 118	7, 598 28, 565 2, 613 4, 261 5, 663 29, 454	8 57 66 18 15 134 9	5, 753 34, 556 4, 760 7, 674 5, 090 34, 334 3, 436
Scows								330 216
Totals	249	86, 378	265	90, 159	239	78,055	307	96, 156

The following is the increase of the lake marine in 1862, distinguishing American and Canadian vessels, as reported by the same authority:

		D STATES VES	SELS BUILDING.	CANADIAN VESSELS BUILDING.			
Class of vessels.	No.	Tonnage.	Value.	No.	Tonnage.	Value.	
Steamers. Propellers Propeller tugs Barks Schooners Barges	3 5 8 2 38	1, 114 3, 815 1, 194 1, 037 15, 546	\$83,550 276,125 89,550 46,665 654,570	2 6 10 19	970 1,960 2,690 3,100 6,600	\$72,750 147,000 121,050 139,500 198,000	
Totals	56	21,706	1, 150, 455	43	15, 320	678, 800	

#### SUMMARY.

		egate tonnage.
	steamboats	
11	propellers	3,775
8	steam tugs	1, 194
8	barks	3,727
	schooners	
19	barges	6,600
_	·	
99	vessels building—total tonnage	. 37,026
=		

The Milwaukie Chamber of Commerce reports, as engaged in the trade of that port alone, the following number and tonnage of vessels in 1862 and 1863:

Class of vessels.		1862.	1863.		
Cambo VA VOSICAS.	No.	Tonnage.	No.	Tonnage.	
SteamersPropellers	7	2, 546	8 69	5,353 38,541	
Barks Brigs Schooners	8 8 107	3, 487 2, 481 19, 330	70 20 405	5, 353 38, 541 28, 883 6, 225 81, 769	

No explanation is given of the sudden and great increase in propellers and schooners in 1863 over 1862, but it is probably due to the connecting of lines regularly at Milwaukie in 1863 which did not previously connect there. The names of several propeller lines of recent establishment are given in the report, however, the eastern connections of which indicate the destination of their freight.

1. The People's Line and Western Transportation Co.: Twelve propellers to Buffalo, Erie railroad and Erie canal.

2. The New York Central Line: Ten propellers to Buffalo, New York Central road and Erie canal.

3. The Grand Trunk Line: Eight propellers to Sarnia, Canada, Grand Trunk railroad.

4. Evans's Line: Seven propellers to Buffalo, New York Central and Erie canal.

5. Northern Transportation Citizens' Line: Eight propellers to Oswego and New York canals.

 Great Western Railway Line: Seven propellers to Sarnia, Canada, Great Western railroad.

7. Detroit and Milwaukie Railroad Line: Two steamships to Grand Haven, Michigan.

8. Montreal Propeller Line: Five propellers weekly, to Montreal, Canada.

It will be observed that three of these lines are to Canada, and that two, having 15 propellers, connect with railroads of Canada at Port Sarnia, nearly opposite Detroit. This is the point in Canada at which the large quantities of western produce enter in transit to eastern markets of the United States. Though appearing in the statistics as exports to Canada, they are not such in fact, merely taking that as a shorter route at certain seasons to the markets of the Atlantic seaboard.

Class of vessels.		1857.			1860	•		1862.	
onas or vossons.	No.	Tons.	Value.	No.	Tons.	Value.	No.	Tons.	Value.
Sail vessels Steam propellers.	849 117	225. 419 59, 891	\$7, 599, 700 2, 959, 500	581 77	173, 736 43, 390	\$4, 352, 600 1, 690, 900	851 120	355, 101 65, 458	\$8, 356, 470 3, 228, 500
Total	966	285, 310	10, 559, 200	658	217, 126	6, 043, 500	971	420, 539	11, 584, 970

This statement shows a greater decline in 1858 to 1860 than is apparent from other evidence, but it also shows the decline to have been more than recovered in 1862. While the commerce of the lakes was undoubtedly much depressed in 1858 and 1859, the subsequent high prices of freight, and the vast amount of produce forwarded, restored it to the fullest proportions that could have been anticipated under any circumstances.

The Chicago statement copied above shows that 1,730 vessels, with an aggregate capacity of 450,893 tons, were engaged in lake commerce of a general character, east and west, in 1862, of which one-fifth was Canadian, or foreign. Undoubtedly the business of 1863 was enlarged by 50,000 tons in addition, making 500,000 tons as the capacity for that year. We have now to obtain an approximate estimate of the produce and merchandise actually moved by this large fleet. Unfortunately the tonnage reported as entered and cleared at the several ports is an imperfect guide to the business in consequence of the absence of discrimination between vessels entering with passengers and in ballast from those arriving with cargoes. At Detroit, Buffalo, and several other ports, an immense tonnage arrival is reported which is merely ferry and passenger transit, having very little significance in the carriage of merchandise either between domestic ports, or between the United States and Canada.

# GRAIN, FLOUR, AND PRODUCE SENT EASTWARD FROM THE LAKE CITIES AND PORTS.

Chicago is the chief exporting city of the lakes in most agricultural staples, though Milwaukie at present exceeds it in the amount of wheat shipped eastward. The business of Chicago is enormous in a great number of articles, of provisions as well as of grain, and its commercial reports have for many years been clear and accurate as to all the conditions of its trade, the receipts and exports by all lines of transportation. The following is a statement of the flour and grain forwarded in detail for 1862, and the totals for nine years, as given in the Board of Trade report of that city for 1862:

Flour and	l grain forwarded	l to all points fron	Chicago in 1862.

Forwarded—	Flour.	Wheat.	Corn.	Onts.	Rye.	Barley.
	Barrels.	Bushels.	Bushels.	Rushels.	Bushels.	Bushels.
To Buffalo, by lake			21,948,967	2,119,950	587.741	226.831
Oswego, by lake	1.208	2,613,784	1,411,747	115,025	58,650	38,550
Ogdensburg, by lake		75,600	531,644	110,040	600	525
Ontonagon, by lake	6 959					
			45.925			
Cleveland, by lake						
Cape Vincent, by lake		102.500				*********
Saginaw, by lake		3,500	8,098	2,050		*******
Other United States ports, by lake				37,948	1,000	
Collingwood. Canada, by lake		83,200	498.687	36,329	48,169	
Port Colborne, Canada, by lake	953	508,050	1,984,860	35,450	46,900	59,625
Kingston, Canada, by lake	14,634	1,415,650	1.764.010	800	59,050	
Toronto, Canada, by lake			291.697	50,311	18,825	
Montreal, Canada, by lake		63,425	88,000		20,000	100000000000000000000000000000000000000
Sarnia, Canada, by lake		351,146		S 20 30 10 2	13,778	1.475
Goderich, Canada, by lake		562,678	683,278	34,362		
Wellington Square, Canada, bylake				02,002	2,212	4,110
Wellington Square, Canada, by inke						
St. Catherine's, Canada, by iake	050				2 500	
Prescott, Canada, by lake	338	10,550				
Windsor, Canada, by lake		2,650			1	
Belleville, Canada, by lake					********	
By Illinois and Michigan canal						
Chicago and Rock Island railroad	837			1,750		4,165
Illinois Central railroad	3,772				9,630	15,931
Chicago, Belvidere, and Quincy railroad	138	1,426				5.943
Chicago and northwestern railroad			47,542			
Chicago and Alton railroad					11111111111	
Chicago and Milwaukie railroad		45.062	31,229	9,399	10.000.000	13,572
Michigan Southern railroad		87,836				
Michigan Central railroad				109,922		
				133,770		
Pittsburg, Ft. Wayne, and Chicago railroad	213,573	42,444	01,300	100,770	3,300	49,008
Total forwarded	1,739,849	13,808,898	29,452,610	3,112,366	871,796	532,195

In this table seven lines leading inland or northward along the lake shore are included, which together took 9,085 barrels of flour, 52,380 bushels wheat, and 465,000 bushels of other grains. These quantities are so small that they will not practically reduce the following aggregates for nine years, in which they cannot be distinguished.

Total quantities of flour and grain forwarded to eastern markets from Chicago for nine years.

Forwarded—	Flour.	Wheat.	Corn.	Oats.	Rye.	Barley.
7	Barrels.	Bushels	Bushels.	Bushels.	Bushels.	Bushels.
1854	111, 627	2, 306, 925	6. 626, 054	3, 229, 987		147, 811
1855	163, 419	6, 298, 155	7, 517, 625	1, 888, 538		92, 011
1856	216.389	8, 364, 420	11.129.668	1, 014, 637		19, 031
1857	259, 648	9, 846, 052	6.814,615	506, 778		17, 993
1838	470, 402	8 850 257	7, 726, 264	1, 519, 069	7, 569	132,020
1859	686, 351	7, 166, 698	4, 349, 360	1, 185, 703	134, 404	486, 218
1860	698, 132	12, 402, 197	13, 700, 113	1, 091, 698	156, 642	267, 449
1861	1,603,920	15, 835, 953	24, 372, 725	1, 633, 237	393, 813	226, 534
1862	1, 739, 849	13, 808, 898	29, 452, 610	3, 112, 366	871, 796	532, 195

The destination of this movement is very largely to Canada, Collingwood, Goderich, Sarnia, Kingston, Port Colborne, Montreal and Toronto being the points. The quantities so sent in 1862 were: flour, 420,544 barrels; wheat, 3,098,424 bushels; corn, 6,005,661 bushels; oats, 157,252 bushels; rye, 200,659 bushels; barley, 71,919 bushels. These were nearly one-fourth the total quantities sent eastward, except in oats and barley.

The quantity of flour sent eastward by railroad is very great, amounting to

672,961 barrels, or more than one-third of the whole. Of this a portion probably took the lake again at Detroit or Toledo, one-half or more being carried

entirely through by railroad.

The shipments or transportation of other articles from Chicago eastward is somewhat difficult of calculation, lake and railroad carriage being to a great extent blended in the statements. The trade in provisions outward is largely increasing, particularly in fresh pork products. The Board of Trade report for 1862 says: "The progress made in pork-packing in Chicago during the past two years is without a parallel in the history of any other city in the United States. During the past two seasons a large proportion of the hogs cut have been made up into English middles, for the Liverpool and London markets. In the early part of this season nearly every packing house in the city was engaged in this branch of the business. The favor with which Chicago brands have been received in the leading markets of England warrants us in the belief that the trade will be one of permanence."

From this statement it may be reasonably inferred that the statement following of hogs, cattle, and cut meats forwarded is mainly to castern markets,

whether by railroad or by lake.

Cattle, hogs, meats, whiskey, wool, lead, &c., sent from Chicago, 1862.

	Cattle.	Hogs, live.	Hogs, dressed.	Beef.	Pork.	Cut meats.	Lard,	
By lake  Chicago and Milwaukie railroad.  Michigan Southern railroad  Michigan Central railroad  Pittsburg, Fort Wayne, and Chicago railroad	735 1,338 30,637 23,837 52,757	449 2,190 141,617 97,688 204,481	51 11,481 24,446 8,631	Bbls. 22,345 29,598 86,238 11,657	29,431	Lbs. 225,000 47,642 24,586,533 22,522,794 24,458,828	Lbs. 34,120 20,080 21,669,941 20,112,178 12 610.184	
Total	109,304	446,425	44,609	149,838	192,549	71,840,797	54,476,423	

Cattle, hogs, meats, whiskey, wool, lead, &c., sent from Chicago, 1862-Continued.

	Tallow.	Hides.	High wines or whiskey.	Wool.	Lead.	Seeds.
By lake Chicago and Milwaukie railroad. Michigan Southern railroad. Michigan Central railroad. Pittsburg, Fort Wayne, and Chicago	Lbs. 365.000 32,000 2,439,923 4,657,753	Lbs. 4,851,920 142,550 2,898.751 2,258,153	Bbls. 17,551 11,915 12,907 27,964	Lbs. 132,480 371,603 660,374	Lbs. 1,378,000 67,151 846,111	Lbs. 1,459,875 49,160 948,764 2,3.4,061
railroud	965,855 8,460,531	5,061,255 15,212,629	14,747 85,084	918,627 2,683,084	3,880,486 6,171,748	1,133, 366 5,990,426

The preponderance of railroad carriage in these articles is very great; barrelled pork, beef, whiskey, hides, wool, and lead being largely carried by lake, and pork only in excess over the carriage by railroads.

A rough estimate of values may be affixed to these quantities deduced from the prices current reported in Chicago in 1862, but the conditions are subject to so much change that it will be but a rough estimate.

Articles.	Quantity.	Price.	Amount.
Flour bbls.	1,730,800	\$5 00	\$8,654,000
Wheatbush.	13, 756, 000	95	13, 068, 200
Corn	29,000,000	32	9, 280, 000
Oats	3,000,000	32	960,000
Ryedo	870,000	50	435,000
Barley	500,000	75	375,000
Cattle	109, 304	30 00	3, 279, 120
Hogs, liveNo.	446, 425	7 50	3, 248, 188
Hogs, dressed	44,609	8 00	356, 872
Beefbbls.	149, 838	12 00	1,758,056
Pork	192,549	10 00	1, 925, 490
Cut meats	71,840,797	6	4, 310, 448
Larddo	54, 476, 423	8	4, 358, 114
Tallowdo	8, 460, 531	9	761, 446
Hides	15, 212, 629	14	2, 129, 768
Whiskeybbls.	85,084	12 50	1,063,550
Woollbs.	2,083,084	50	1,041,542
Leaddo	6, 171, 748	6	570, 365
Seedsdo	5, 990, 426	8	479, 234
Total estimated value			57, 854, 334

#### PRODUCE SENT EASTWARD FROM MILWAUKIE.

The produce sent from Milwaukie is next to that of Chicago in amount and value. The following are the shipments eastward, nearly all by lake throughout, though a part crossing Michigan by railroad in 1861, 1862, and 1863, for ten years, to 1863 inclusive:

Exports of flour and grain from Milwaukie.

Year.	Flour.	Wheat.	Oats.	Corn.	Barley.	Rye.
	Barrels.	Bushels.	Bushels.	Bushels.	Bushels.	Bush Is.
1854	145, 032	1,809,452	404, 999	164,900	331, 339	113, 443
1855	181,568	2,641,746	13,833	112, 132	63, 379	20,030
1856	188, 455	2,761,979	5, 443	218	10,398	
1857	228, 442	2,581,311	2,775	472	800	
1858	298, 688	3,994,213	562, 067	43,958	63, 178	5, 378
1859	282,956	4,732,957	299,002	41,364	53, 216	11,577
1860	457, 343	7,568,608	64, 682	37, 204	28, 056	9,735
1861	674, 474	13,300,495	1,200	1,485	5, 220	29, 810
1862	711, 405	14,915,680	79,094	9,489	44, 800	126, 301
1863	603,526	12,837,620	831,600	88, 989	133, 449	84, 047

## The exports of flour and grain from all the lake ports in 1863 were as follows:

	Flour.	Wheat.	Oats.	Corn.	Barley.	Rye.
Racine	Barrels. 12,457	Bushels. 747, 898	Bushels. 2,148	Bushels. 69, 085	Bushels.	Buskels.
KenoshaSheboygan	19,011	122, 470 255, 436	5,210 9,701		13,790 560	400
Port Washington	4, 164	76,880	3, 443	50	4, 109	2, 560
Green Bay	140, 397 603, 526 1, 536, 691	586, 805 12, 837, 620 10, 389, 381	831,690 5,564,650		133, 447 668, 735	84, 047 835, 133
Total in 1863	2, 301, 664	24 751,673	6,416,842	25, 832, 206	816, 133	919, 712

The shipment of provisions eastward from Milwaukie in 1862 w	as large:
	, 900 pounds.
Pork, 56,434 barrels, equal to	, 800 pounds.
Page 19 665 have some to 5 299	605 pounds.
Bacon, 12,665 boxes, equal to	, 625 pounds
	, 593 pounds.
Tallow, 4,750 barrels, equal to	, 750 pounds.
Other produce shipments were:	
Butter, 1,068,967 pounds, value	\$138,965
Wool, 1,314,210 pounds, value	657, 105
Hides, No. 32,941, value	
Seeds, 8,684 pounds, value	26,052
Whiskey, estimated 20,000 barrels, value	
in it is a second of the secon	200,000
The value of the produce of all classes shipped at Milwaukie is a	pproximately
as follows, for 1862:	••
Flour	\$3, 557, 020
Wheat	14, 169, 896
Other grains	126, 278
Beef.	436, 692
Pork	564, 3 <b>4</b> 0
Bacon	322, 958
Lard	414, 207
Tallow	•
	95, 000
Butter, wool, &c	1, 000, 945
Total	20 727 226
1.0ku	20, 707, 330
To which may be added, for grain and flour shipped from Rac	ine, Kenosha,
Sheboygan, and Green Bay, \$2,590,685, giving an aggregate approximation of the state of the stat	roximately as
follows:	•
Chicago	\$57 854 333
Milwaukie	20, 787, 336
Other ports of Lake Michigan	2, 590, 685
Armer house or respectationism	2,030,000
Total value	81 939 354
	01, 232, 334
	· ·

# Eastward freights on the Milwaukie and Prairie du Chien and the Milwaukie and La Crosse railways in 1863.

Articles.	Milwaukie and Prairie du Chien.	Milwaukie and La Crosse.
Flour         barrels           Wheat         bushels           Bye.         bushels           Barley         bushels           Oats         bushels           Corn         bushels           Beans         bushels           Grass seeds         bushels           Live hogs         No           Dressed hogs         pounds           Cattle         No           Eggs         pounds	4,502,197 85,943 132,877 786,216 106,638 11,275 8,344 55,027 19,780,205 22,112	235, 623 5, 764, 325 41, 041 118, 157 103, 500 3, 336 2, 513 350 5, 993 9, 407, 769 4, 325

# Eastward freights, &c.-Continued.

Articles.	Milwaukie and Prairie du Chien.	
Butter         pounds           Lard         pounds           Tallow         pounds           Wool         pounds           Hides         pounds           Potatoes         bushels           Pork and beef         barrels           Farm products, not specified         pounds           Horses         No           Barrels, empty         No           Staves         pieces           Lumber         feet           Pig iron         pounds           Ice         tons	1, 774, 824 216, 604 440, 691 1, 722, 529	300, 573 1, 193 9, 432 436, 300 2, 651, 192
Agricultural implements pounds. Shingles bunches. Stave bolts cords. Merchandise pounds. Machinery pounds. Miscellaneous pounds.		251, 914 5, 993 150 2, 770, 496

# Westward freight over the Milwaukie and Prairie du Chien and the Milwaukie and St. Paul railroads in 1863.

Articles.		ilwaukie and airie du Chien.	Milwaukie and St. Paul.
Merchandisepot		47, 101, 026	76, 508, 426
Machinerypot	inds.	397, 957	982, 691
Agricultural implementspou	mus.	3, 598, 650	2, 191, 156
Miscellaneouspot		9,706,468	9, 059, 137
Lumber		9, 056, 673	5, 679, 050
Shingles		5,981,250	3, 333
Lathes		976,745	182, 080
Hoops		16, 371	190, 006
Stavespi		349, 942	386, 000
Hidespor		• • • • • • • • • • • • • • • • • • • •	215
Coal		5, 328	2,958
Pig iron	tons.	. 80	278
Barkpot		• • • • • • • • • • • • • • • • • • • •	80,000
Bricks		780	219
Stone			18
Saltba		55, 107	45, 282
Cementba		3,099	4, 492
High winesba		<b>2,054</b>	8, 993
Flour ba		724	1,425
Wheatbus	hels.	<b></b>	1,969
Barrels, empty	.No.	14,486	9,288
Barrels, empty	No.	7, 317	10, 112
Pork and beefba	rrels.	••••	2,043
Corn bus			3,650
Woolpot			15, 308
Farm products, not specifiedpou	inds		1,034,718

There are various minor products of the vicinity of Lake Michigan which constituted items of noticeable value in these exports—in the Milwaukie trade reports cranberries, beans, eggs, staves, shingles, brick, &c.—but their aggregate value is small. At ports of the lake further northward there are furs, fish, lumber and wood in large amount. The fisheries of the straits are extensive and profitable, and though great quantities are now sens west, for consumption in Illinois, Wisconsin, and the vicinity, there is a more considerable portion going eastward to all parts of the lake district. From all miscellaneous sources, however, not more than two or three millions of dollars in value would be added to the outward or eastward trade of the Lake Michigan district.

#### THE LAKE SUPERIOR TRADE.

The next important accession to the lake trade going eastward is the export trade of Lake Superior, mainly the product of its copper and iron mines. The following statement of the superintendent of the ship canal at the Falls of the Sault Ste. Merie shows the transit of vessels through that canal monthly for 1862:

Months.	SCHOONERS.		PROPELLERS.		STEAMERS.		TOTAL.	
	No.	Tons.	No.	Tons.	No.	Tons.	Tons.	
In April	:		1	744	1	786	1,530	
May	28	6,856	20	10,698	28 27	19,991	37,345	
May June	146	49, 336	18	9,834	27	18,812	77,982	
July	100	29,093	18	9,960	25	17,686	56,739	
August	135	42,608	21	11,677	24	17,537	71,820	
September	100	32,850	22	10,849	29	20,109	63,808	
October	29	8,742	14	7,549	23	16, 198	32, 489	
November	5	1,310	7	3,813	17	12,776	17,899	
Total	543	175, 595	121	65, 124	174	124,833	359, 612	

The character of this trade is such that this movement would necessarily represent an equal number of vessels and amount of tonnage each way, as all vessels that go up return again the same season unless lost. The eastward movement of the year 1862 would therefore be:

271	schooners	tons	82,797
60	propellers	tons	32, 561
	steamers		
A 410			
Or 410	vessels of all classes	tons	177, 774

The shipments outward for 1862 were estimated by the same authority to be 150,000 tons of iron and iron ore, and 9,300 tons of pure or native copper, valued together at \$12,000,000. Very little else was shipped outward—a few furs, copper ore from the Canadian side, and minor articles. The inward or westward shipments of merchandise, machinery for working mines, supplies to miners, &c., are estimated to have been of the value of \$10,000,000 for the same year.

The following statement of the production and shipment of copper from the opening of the mines in 1845 will show the development already attained:

## Aggregate shipments of copper from Lake Superior from 1845 to 1862.

		Value.
Shipments in 1845pounds.	. 1,300	<b>\$</b> 290
1846tons.		2,619
` 1847tons.	. 239	107,550
1848tons.	. 516	206,400
1849tons.	. 750	301,200
1850tons.	. 640	266,000
1851tons.	. 872	348,800
1852tons.	. 887	300,450
1853tons.	. 1,452	508 <b>,</b> 20 <b>0</b>
1854tons.	. 2,300	805,000
1855tons.	. 3,196	1,437,000
1856 tons.	. 5,726	2,400,100
1857,tons.	. 5,759	2,015,650
1858 tons.	. 5,896	1,610,000
1859tons.	. 6,041	1,932,000
1860 tons.	. 8,614	2,520,000
1861 tons.	. 10,347	3,180,000
1862tons.	. 10,000#	4,000,000

## Shipments of the copper districts—four years.

	1859.	1860.	1861.	1862.
Keweenaw district 1	,910.3	1,910.8	2,151.9	2,726.8
Portage lake1	,533.1	3,064.6	4,708.6	4,288.9*
Ontonagon2		3,610.7	3,476.7	2,706.1
Carp lake		20.5		7.1
Sundry mines		7.6		

The production of iron and the export of iron ore in the Lake Superior region were as follows:

	Tons ore.	Tons pig.	Value.
1855	. 1,445		\$14, 470
1856	. 11, 597	• • • •	92, 776
1857	. 26, 184	• • • • •	209, 472
1858	. 31,035	1,627	249, 26 <b>9</b>
1859	. 65, 679	7, 258	575, 521
1860	.116,998	5, 660	736, 490
1861	. 45, 430	7,970	410, 460
1862	.115, 721	8, <b>590</b>	984, 976

The destination of the copper shipped is to Buffalo and castward, but the iron and iron ore go in part to Cleveland and Pittsburg. Copper is also smelted at Pittsburg to some extent. A very large trade with Lake Superior is conducted at Cleveland, at which point many of these products are first received.

## THE LAKE FISHERIES.

The lake fisheries are described in the Buffalo trade report as being located and successful at a great number of points:

"In the Sandusky bay, in the Maumee bay and Maumee river, in the Monroe bay, in the Detroit river, in the St. Clair river and rapids, in Lake Huron from Huron to Point aux Barque, in the Au Sable river, in Thunder bay above Au Sable river, including Sugar island, in Saginaw bay and river, in Tawas bay, between Thunder bay and Mackinec,

<sup>\*</sup> Estimated.

including Hammond's bay, in and about Mackinao at Beavor island and its surroundings, between the De Tour and the Sault, along the eastern shore of Lake Michigan, in Green bay in Wisconsin and Michigan, at Presque Isle, Pennsylvania, in Superior's numerous bays and inlets, are found the principal fishing grounds of the lakes, and the annual eatch ranges from sixty to one hundred thousand barrels, valued at four to six hundred thousand dollars. The lake fisheries are only second to the cod fisheries off the Atlantic coast, from Cape Cod bay to Cape Breton, and are a source of very considerable wealth."

The receipts of fish at Buffalo only are fully stated, and the decline apparent in the proceeds of the fisheries received there results from the increased demand for them in the western States generally, and their wider distribution.

## Lake imports of fish at Buffalo.

Yours.	Barrels.	The state of the s	Barrels.
1854	11,752	1859	. 13, 391
1855	7, 241	1860	. 26, 655
1856	6, 250	1861	. 8, 313
1857			
1858	. 4, 203		

#### TRADE OF LAKE ERIE EASTWARD

#### Toledo.

Toledo has within a few years become a point of very extensive shipment of grain and produce eastward. The country adjacent to it, and westward to Lake Michigan, is extremely productive, sending a large annual surplus to distant markets, and the Michigan Southern railroad brings large quantities of flour from Chicago to take water transportation further eastward. In five years, closing with 1862, this road delivered the following extraordinarily large quantities of flour, grain, and other produce, at Toledo:

Articles.	1858.	1859.	1860.	1861.	1862.
Flour barrels. Wheat bushels. Corn do Pork barrels. Beef do Cattle number. Hogs, live do Hogs, dressed pounds. Pork boxes do	940, 393 266, 229 132, 630 51, 212 1, 552 1, 552	379, 610 1, 024, 026 190, 219 88, 006 80, 279 1, 253 962 4, 728, 175	394, 542 1, 949, 893 831, 372 179, 625 62, 880 47, 185 1, 641 1, 397 3, 714, 567	752, 309 2, 450, 320 200, 440 22, 925 91, 738 17, 829 2, 281 1, 482 5, 515, 077	882, 576 2, 850, 694 258, 300 187, 345 55, 813 32, 225 1, 803 3, 006 6, 345, 224 17, 506, 593

It will be seen that the new product of cut pork for European markets appears largely in 1862, evidently in greater part from Chicago.

The Dayton and Michigan railroad, leading from the southwest, in western Ohio, also brought a large amount of produce in 1862:

Flour	barrels	158,257	Beef barrels	4,662
Wheat	bushels1	,277,006	Pork in boxespounds5	,972,836
Corn	bushels	98,422	Dressed hogspounds	529,081
Pork	barrels	21,639	ŭ I	٠.

The Toledo and Wabash railroad brought from central Indiana:

Flour barrels 247,389	Porkbarrels 60,978
Wheat bushels 2,565,958	Beef barrels 33,124
Cornbushels2,678,327	Dressed hogspounds4,302,078
Oats and ryebushels 66,239	Cut porkpounds1,549,267

The Wabash and Erie and Miami and Erie canals delivered at Toledo in 1862:

Flour	barren 2	17,860	Pork	barrels	28.898
Wheat	oushels3,0	07,204	Beef	barrels	3,469
Corn b	oushels 7	38,863	Whiskey	barrels	21,906
Oats and ryeb	oushels	5,621	Bacon	pounds2,	431,371

Together these lines sum a large aggregate of receipts at Toledo, of which enly a small portion has before been noted as leaving Chicago eastward by the Michigan Southern railroad. The total quantities received are:

Flour barrels	1,585,325	Whiskeybarrels	157,115
Wheatbushels	9,827,629	Hidespounds	
Corn bushels	3,813,709	Hogsnumber	327,680
Pork barrels	167,328	Cattle number	74,840
Beefbarrels	73,480	Sheep number	
Lard pounds		Cloverseedbushels	60,540
Pork in boxes, and bacon, lbs.	27,450,067	Dressed hogspounds	11,176,383

The following is a summary of the receipts of flour and grain at Toledo for three years:

Flourbarrels	1860. 807, 768	1861. 1, 406, 676	1862. 1, 585, 325
Wheatbushels		6, 277, 407	9, 827, 629
Corn bushels		<b>5, 312,</b> 038	3, 813, <b>709</b>
Oatsbushels	129, 689	41, 428	23 <b>4, 759</b>
Barleybushels	115, 992	12,064	63, 038
Ryebushels	37, 787	31, 193	44, 368
Total grain	11, 011, 609	11, 674, 130	13, 983, 593
•			

The lines of shipment eastward from Toledo are two propeller lines of six to ten vessels each, one connecting with the New York central railroad at Buffalo, and one with the Erie railroad at Dunkirk. There are also vessels running to Oswego, Ogdensburg, Port Colburne, Canada, and other points. The Cleveland and Toledo railroad takes a large amount of flour on the south shore of the lake to Cleveland.

Table showing the shipments of flour, wheat, and corn from Toledo in 1862.

Ports.	Flour.	Wheat.	Corn.
To Buffalo Dunkirk Oswego Cape Vincent Ogdensburg Saginaw and Port Huron Cieveland Erie Montreal Kingston Toronto Port Colborne Other Canadian ports By Cleveland and Toledo railroad	5,818 38,706 550 	142, 506	Bushels. 1, 471, 218 111, 436 741, 233 69, 750 341, 709 41, 600 45, 060 33, 160 164, 174 188, 717 73, 470 208, 910 157, 336
Total	1,547,325	9, 402, 327	3,697,808

..... 30, 989, 820

This is all, therefore, the proper eastward trade of the belt embraced in the general calculation, and it is mainly lake commerce strictly. The larger share of the shipments eastward from Chicago by railroad here return to the lake, though they again take the railroads in New York, the Eric at Dunkirk and the Central at Buffalo. The shipments eastward of other produce, pork, beef and provisions, are not given in the trade report\* from which the preceding statistics have been taken, but it is assumed that the shipments are at least equal to the receipts. Of pork, beef, lard, tallow, &c., they are undoubtedly much greater than the receipts by railroads and canals, since there is no considerable consumption at Toledo, and a lage number of hogs are packed in the city. Live stock, hogs, cattle and sheep, were sent eastward mainly by the Cleveland and Toledo railroad. The numbers by railroads and by lake were:

•	Cattle.	Hogs.	Sheep.
By lake	4,093	14, 945	1, 156
By railroad	85, 370	341,640	34, 800
Total sent east 1862	89, 463	356, 585	35, 956
	<del></del>		
The value of this produce leaving Tol	edo <b>eastwa</b> r	d is, approxim	ately—
Flour			\$7, 736, 625
Wheat			9, 402, 327
Corn			1, 479, 123
Pork			1,840,608
Beef			891, 760
Whiskey			1, 571, 150
Hides			630,000
Hogs			2,600,440
Cattle			2, 245, 200
Sheep			35,000
Cloverseed			240,000
Pork in boxes and bacon			1,647,004
Dresged hors			670 582

### THE TRADE OF DETROIT EASTWARD.

The position of Detroit is one of extensive transit of produce brought by the railroads crossing the State from Lake Michigan, as well as one of importance as a primary market of the produce of the State of Michigan. The Michigan Central railroad carries largely of freight from Chicago, which has once been noted in the statistics of eastward-bound produce. The various branches of this and the other roads in the State make the chief market of their surplus at Detroit. The receipts of flour and grain for three years from all sources were as follows:

Articles.		1860.	1861.	1862.
Flour Wheat Corn Oats Barley Rye	bushelsdododododododo	862, 175 1, 809, 523 638, 698 319, 598 124, 882 30, 843	1, 321, 140 2, 505, 111 1, 036, 506 388, 986 59, 734 16, 981	1,543,876 3,058,242 583,861 402,247 165,200 18,807

<sup>&</sup>quot;The Toledo Blade's annual statement of the trade and commerce of Toledo," problished by the Toledo Board of Trade.

The detail of other produce is not at hand for incorporation in this statement. It is known to embrace large quantities of miscellaneous produce—wool, butter, hides, pork, beef and provisions, lard, tallow, seeds, &c. The flour and grain stated above would reach a large valuation, which may be stated at the following approximate sums:

Flour	\$9,000,000
Wheat	3, 250, 000
Corn	
Oats	
Barley and rye	

Estimating five millions of dollars as a minimum value of other produce finding its primary market here, the total value is \$18,085,000 furnished at this point to the lake commerce destined for eastern markets.

We find in a late number of the Detroit Tribune a carefully prepared statement of the flour and grain trade of that city for 1863, from which we make up the following table:

	FLOUR.		•
	•	Receipts—bbls.	Shipments—bbls.
1858		592, 387	505, 917
1859		605, 640	478, 918
1860		862, 175	809, 51 <b>5</b>
1861		1, 321, 149	1, 261, 289
1862		1, 543, 886	1, 445, 458
1863		1, 143, 148	1, 033, 150
	WHEAT.		
	***************************************	Bushels.	Bushels.
1858		886, 613	791, 870
1859		858, 037	739, 236
1860	• • • • • • • • • • • • • • • • • • • •	1,814,951	1,607,757
1861	• • • • • • • • • • • • •	3, 005, 111	2, 705, 067
1862		3, 593, 242	3, 419, 942
1863	• • • • • • • • • • • • • • • • • • • •	2, 174, 726	1, 862, 901
	CORN.		•
1858	• • • • • • • • • • • • • • • • • • • •	236, 612	182, 587
1859			132, 487
1860		638, 698	592, 044
1861		1,036,506	989, 309
1862		608, 861	342, 887
1863	• • • • • • • • • • • • • • • • • • • •	352, 295	139, 616
	OATS.		
(1858 not given.)			•
1859			24, 816
1860			319, 205
1861		319, 986	253, 157
1862	·	•	151, 204
1863	•••••	. 662, 926	<b>4</b> 65, 0 <b>57</b>
TOTAL RECEIPTS OF	FLOUR AND GR	RAIN REDUCED TO	BUSHELS.
1859			4, 177, 856
1860			6, 441, 639
1861	•••••		10, 514, 286
1862			11, 827, 000
1863	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	8, 527, 666

#### LAKE COMMERCE AT BUFFALO.

From the preceding review of the sources of lake freight and its general shipment eastward, it is apparent that it takes many different routes of actual transit. While the chief one is to Buffalo, connecting there with the Erie canal and the New York Central railroad, there is, first, a large diversion by southern routes; the Pittsburg, Fort Wayne, and Chicago railroad, the Southern Michigan, and the Cleveland and Toledo railroads, all carrying in part to the Pennsylvania Central road, and the two last named to the New York and Erie railroad. Next are other railroads, and several propeller lines terminating at Dunkirk, for shipment over the New York and Erie road; and on the north there are several Canadian lines which draw off large quantities of produce either to Canadian markets, or for transit through Canada to Niagara, Oswego, or other points in the United States eastward. Extensive shipments also take the Welland canal for Lake Ontario without touching at Canadian ports.

The freight passing over the Pennsylvania railroad can only be calculated in the business of that road. Those of the Erie road also have no statistical statement at the point of receipt, and it is only at Buffalo that any definite account of receipts by lake, or from the lake district, can be taken. At this point the statistics are full and satisfactory, and in the very valuable report of the Buffalo Board of Trade for 1862 they are given for a series of years to 1862, inclusive. Here are also definite statements of many items of lake exports—fish, copper, iron, &c., which could not be stated in detail from western

sources.

Buffale is a point of the receipt and shipment equally of quantities coming from other primary or producing markets and destined to other markets of consumption. Oswego, Dunkirk, Ogdensburg, and Cape Vincent are the same for the lake trade. Detroit and Toledo are such in part only. The following statements of receipts may therefore be considered as equivalent to shipments also, and may be grouped as exhibiting the receipts at the eastern extremity of the lakes of the proper trade of the lake district:

1	BUFFALO.		
	1860.	1861.	1862.
Flourbarrels	1, 122, 335	2, 159, 591	2, 846, 022
Wheatbushels	18, 502, 649	27, 105, 219	30, 435, 381
Corn bushels	11, 386, 217	21, 024, 657	24, 288, 627
Oatsbushels	1, 209, 594	1, 797, 905	2, 624, 932
Barleybushels	262, 158	313, 757	423, 124
Ryebushels		337, 764	791, 564
Total grain	31, 441, 440	50, 597, 302	58, 564, 078
	oswego.		
•	1860.	1861.	1862.
Flourbarrels	121, 399	119,056	235, 382
Wheatbushels	9, 651, 564	10, 121, 446	10, 982, 132
Cornbushels	<b>5</b> , 019, <b>4</b> 00	4, 642, 262	4, 528, 962
Oatsbushels	388, 416	116, 384	187, 284
Barleybushels	1, 326, 915	1, 173, 551	1,050,364
Ryebushels	244, 311	·381, 687	130, 175
Total grain	16, 630, 606	16, 435, 330	16, 878, 917

#### DUNKIRK.

	1860.	1961.	1862.
Flourbarrels	542, 765	736, 529	1, 095, 364
Wheatbushels	500, 888	604, 561	112,061
Cornbushels	644, 081	230, 400	149,654
Oats and ryebushels	8, 843	7, 175	10, 173
Total grain	1, 153, 812	842, 136	271, 888
OGE	ENSBURG.		
	1860.	1861.	1862.
Flour barrels	248, 200	411, 888	576, 394
I lour	=======================================	411,000	======
Wheatbushels	565, 022	677, 386	689, 930
Corn bushels	867, 014	1, 119, 594	1, 120, 176
Oatsbushels	28, 242	2, 365	3, 336
Barleybushels	7, 105	15, 151	15, 529
Ryebushels	3,050	3,888	• • • • • • • • • • • • • • • • • • • •
Total grain	1, 470, 433	1, 818, 384	1, 828, 974
CAI	PE VINCENT.		
	1860.	1861.	1962.
Flourbarrels	28, 940	65, 407	48, 576
Wheatbushels	208, 878	276, 610	,316, 403
Cornbushels	73, 300	124, 411	219, 369
Oatsbushels	<b>27,</b> 299	2, 994	1,030
Barleybushels	90,614	<i>5</i> 3, 877	31, 265
Ryebushels	20, 616	23, 365	762
Total grain	415, 707	481, 257	598, 829
•			

# Summary of receipts at terminal lake ports, 1862.

	Flour, barrels.	Grain, bushels.
Buffalo	2,846,022	58, 564, 078
Dunkirk	1,095,364	271, 888
Oswego	235, 382	16, 878, 917
Ogdensburg	576, 394	1, 828, 974
Cape Vincent	48, 576	598, 829
Total	4, 801, 738	78, 142, 686

It is clear that this does not cover the total lake trade, not to mention that of the districts of the west south of its proper line, since the receipts at New York alone are larger than the total. The following statement of receipts at New York is from the Buffalo trade report for 1862:

Flourbarrels	3, 892, 358	5, 013, 053	5, 379, 417
Wheatbushels	18, 089, 384	28, 749, 909	28, 897, 110
Cornbushels		23, 189, 469	18, 409, 465
Oatsbushels		4, 031, 395	4, 832, 330
Barleybushels		1,742,895	1, 627, 790
Ryebushels		659, 368	923, 016
Total grain	36, 759, 864	58, 373, 036	54, 689, 711

The flour and grain trade of Buffalo has been large for many years, and until about 1854 it constituted the sole statistical return of that class of trade on the lakes. The following statement of receipts at Buffalo of flour and the several kinds of grain shows the growth of the trade from 1836 to 1862, and that at no time has its increase been so rapid as from 1860 to 1862:\*

Receipts of flour and grain at Buffalo from the west from 1836 to 1862.

Years.	Flour.	Wheat.	Corn.	Oats.	Barley.	Rye.
tura dell'	Barrels.	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.
1836	139, 178	304, 090	204, 355	28, 640	4,876	1,500
1837	126, 805	450, 350	94, 490	2,553		3, 267
1838	277,620	933, 117	34, 148	6,577		909
1839	294, 125	1,117,262				
1840	597, 142	1,004,561	71, 327			
1841	730, 040	1,635,000	201,031	14, 144		2, 150
1842	734, 308	1,555,420	454, 530		4,710	1,268
1843	917,517	1,827,241	223, 963	2,489		1,332
1844	915, 030	2,177,500	137,978	18,017	1,617	456
1845	746,750	1,770,740	54, 200	23, 100		
1846	1, 374, 529	4,744,184	1, 455, 258	218, 300	47, 350	28, 250
1847	1,857,000	6,489,100	2,862,300	446,000		70,787
1848	1, 249, 000	4,520,117	2, 298, 000	560,000	6	17,889
1849	1, 207, 435	4,943,978	3, 321, 651	362, 384		
1850	1, 103, 039	3,681,347	2,593,378	357, 580	3,600	
1851	1, 258, 224	4, 167, 121	5, 988, 775	1, 140, 340	142,773	10,652
1852	1, 299, 513	5,549,778	5, 136, 746	2,596,231	497,913	112, 251
1853	975, 557	5, 420, 043	8, 065, 793	1,580,655	401,098	107, 152
1854	739,756	3,510,792	10, 108, 983	4, 401, 739	313, 885	177,066
1855	936, 761	8, 022, 126	9,711,430	2,693,222	62, 304	299, 591
1856	1, 126, 048	8, 465, 671	9, 633, 277	1,738,382	46, 327	245,810
1857	845, 953	8, 334, 179	5, 713, 611	1,214,760	37,844	48, 536
1858	1, 536, 109	10, 671, 550	6, 621, 668	2,278,241	308, 371	125, 214
1859	1, 420, 333	9, 234, 652	3, 113, 653	2, 394, 502	361,560	124, 693
1860	1, 122, 335	18, 502, 649	11, 386, 217	1, 209, 594	262, 158	80,822
1861	2, 159, 591	27, 105, 219	21, 024, 657	1,797,905	313, 757	337,764
1862	2, 846, 022	30, 435, 831	24, 288, 627	2,624,932	423, 124	991, 564

<sup>\*</sup> The following incidents connected with the origin of this vast trade are from the Board

insignificant as compared with our present grain trade.

"In the fall of 1838 the steamer Great Western brought to this port from Chicago thirtynine bags of wheat consigned to a miller in Otsego county, which was the first grain shipment from Lake Michigan ports, and the only shipment made during that year.

of Trade report of Buffalo for 1862:
"The history of the produce trade of Buffalo, which is now of such vast magnitude, dates back but a few years, and is in fact the history of the produce trade of the Great West. Previous to 1839 there was very little, if any, grain received at this port for sale. The grain received prior to this date was mostly purchased by millers from the interior of this State, who made their purchases in Ohio and shipped it to place of destination, but the quantities were

The trade of Buffalo in pork, beef, bacon, and provisions generally, is as greatly extended in 1862 over former years as is that in flour and grain. The following table gives the total of receipts and the shipments by canal eastward for fourteen years. The shipments by railroads eastward are large, but they cannot be distinguished, being simply classed with other freight:\*

	Receipts of	provisions	by lake for fo	urteen years.	Canal exp	orts of pro	visions for for	arteen years.
Years.	Pork.	Beef.	Bacon.	Lard.	Pork.	Beef.	Bacon.	Lard oil and lard.
10.40	Barrels.	Barrels.	Pounds.	Pounds.	Barrels.	Barrels,	Pounds.	Pounds.
1849	59, 954 40, 249	61, 998 84, 719	5, 193, 996 6, 562, 808	5, 311, 037 5, 093, 512	41, 978 27, 517	58, 978 78, 853	4, 322, 664 7, 791, 466	4, 421, 614 5, 864, 187
1851	DO 100	73, 074	7, 951, 030	4, 798, 500	23,680	61, 773	6, 146, 000	4, 339, 000
1852		70,679	9, 696, 590	7, 164, 672	71,863	55, 615	9, 364, 458	10, 060, 237
1853		69,779	23, 075, 645	8, 185, 305	86,085	49, 346	15, 474, 367	8, 759, 456
1854		56,997	20, 455, 400	13, 575, 660	123, 255	26, 750	18, 702, 326	14, 613, 246
1855		97, 804	10,748,399	10, 357, 130	72, 278	34, 925	6, 794, 919	5, 169, 128
1856		33, 320	9, 220, 932	5, 337, 502	28,032	4,843	3, 948, 307	3, 905, 709
1857		59, 911 122, 945	3, 612, 519 5, 189, 176	643, 006 4, 916, 520	9, 195 38, 602	5, 256 72, 503	2, 112, 093 3, 009, 548	710, 435 3, 830, 619
10.00	60, 482 76, 619	81,875	5, 953, 000	5, 379, 150	35, 782	30, 358	1, 518, 147	3, 150, 503
1860		37, 522	1, 651, 600	1, 618, 303	5, 466	6, 460	4, 452	106, 660
1861		52, 187	2, 347, 825	3, 941, 998	4, 290	17, 341	212, 416	682, 778
1862		123, 301	25, 687, 657	22, 471, 204	126, 421	53, 826	4,242,483	6, 549, 454

The receipts by lake and the exports by canal of whiskey at Buffalo for thirteen years are as follows:

Years.	Imported by lake.	Exported by canal.
1850 barre	ls 30,189	19,844
1851 barre	ls 76,524	60,300
1852 barre	ls 79,306	73,398
1853 barre	ls 66,707	45,693
1854barre	ls 50,287	24,757
1855 barre	ls 27,087	18,989
1856barre	ls 36,009	5,501

"In October, 1839, the brig Oceola brought from Chicago, for Durfee & Kingman, then millers at Black Rock, 1,678 bushels of wheat, which was the first grain shipment in bulk from Lake Michigan ports. In 1840 a small schooner called the General Harrison, of about 100 tons burden, was laden at Chicago with 3,000 bushels of wheat, for Buffalo, which is said to be the first full cargo of grain exported from Lake Michigan. During the same year the schooner Gazello brought from Chicago 3,000 bushels of wheat, the brig Erie 2,000 bushels of wheat, and the schooners Major Oliver and Illinois each a small cargo. Such was the beginning of the grain trade of the upper lakes which has now grown to such vast magnitude. From this period to the opening of the Illinois canal, 1848, the trade was slowly progressive. In the year 1844 Charles Walker, of Chicago, was said to have had at one time five vessels afloat, loaded with wheat, destined for Buffalo, and this was then considered to be of great magnitude, while, during the season just passed, it has been no unusual event to have two to two and one-half million bushels of grain afloat on the lakes, destined for this port, mostly from Lake Michigan. Previous to 1843 the only grain coming from Lake Michigan was wheat, and it was not until 1848 that any corn worthy of notice was received from Illinois, and what little there was brought to Buffalo came from Ohio." little there was brought to Buffalo came from Ohio.

Note appended to this table in the Buffalo Trade report:

"It will be seen from the foregoing table of canal exports from 1849 to 1855, that there was

a gradual augmentation of the movement by canal.

"After the consolidation of the movement by canal."

"After the consolidation of the roads composing the New York Central, and the opening of the New York and Eric railway, these roads divided the business with the canals, taking the lion's share, but the subsequent action of the canal board in adjusting the rates of toll has gained to the canals a larger share than under the higher rates of toll. If the revenues of the State are to be augmented, a lower rate of toll than the present would secure to the canals a larger tonnage from pork, beef, lard, and bacon than is now carried by the several railway

1857	barrels 42,14	0 20,900
1858		
1859	barrels 16,21	1 15,930
1860	barrels 49,20	4 15,282
1861	barrels 111,37	2 45,759
1862		

Staves and lumber from the lakes are principally received at Buffalo, so far as they are designed for the market there and eastward. Chicago is a great market for supply of the interior of Illinois, but no port of Lake Michigan exports staves or lumber eastward. The Buffalo Board of Trade report speaks of this trade as follows:

"The lumber and stave trade constitutes a very large portion of the freight carried on the lakes and canals, and is only second to grain. The larger portion of the eastward movement usually take place in mid-summer, when low rates of transportation rule. The principal sources of supply are the States of Ohio, Indiana, Michigan, Canada West, and Pennsylvania, of which more than fifty per cent. is from Michigan alone. In the northern peninsula of that State, in and around Saginaw, at Port Huron, on St. Clair river, are the largest and finest lumber districts in the west and northwest.

"The supply of staves is derived from Ohio, Indiana, Michigan, Wisconsin, and Canada West, of which more than eighty per cent. of the receipts at this port come from these States first named."

The table of comparison of receipts by lake at Buffalo and of exports by canal is for fourteen years.

#### LAKE IMPORTS.

Years.	Staves, No.	Lumber, feet.
1846	10,762,500	34,536,000
1847	8,800,000	18,313,000
1848	6,091,000	21,425,000
1849	14,183,902	33,935,768
1850	18,652,890	53,076,000
1851	10,696,006	68,006,000
1852	12,998,614	72,337,225
1853	9,215,240	89,294,000
1854	15,464,554	67,407,003
1855	16,421,568	72,026,651
1856	18,556,039	60,584,812
1857	23,024,213	68,283,319
1858	15,119,019	67,059,173
1859	23,277,028	111,072,476
1860	22,307,839	111,094,496
1861	25,228,978	58,082,713
1862	30,410,252	125,289,971
	•	

#### CANAL EXPORTS.

Years.	Staves, tons.	Lumber, feet.
1849	62,127	40,694,095
1850		45,791,525
1851	37,964	55,881,000
1852	41,565	63,424,388
1853	38,033	61,885,663
1854	60,157	59,109,520
1855	74,606	48,989,289
1856	72,932	102,713,88
1857	92,961	43,727,523

1858	77,521	31,991,057
1859	111,469	94,364 597
1860	132,420	91,612,507
1861	117,380	33,343,470
1862	148,679	88,327,976

The receipts at Buffalo given in the above tables as from the west are altogether by lake, and do not include the carriage by two important railroads—the Lake Shore road, from the southwest, and the Buffalo and Niagara Falls road. Nor do they include the large amount of flour taken over the Niagara river at Suspension Bridge.

The receipts at Buffalo by lake of many other articles are important. Live stock, transported both by lake and railroad, at that point are stated as follows in the trade report from which we quote:

The following will show the receipt of live stock by lake from 1850 to 1862, inclusive:

•	Cattle.	Hogs.	Sheep.
1851number	8,211	89,120	
1852number	15,926	171,223	16,590
1853number	20,466	114,952	20,466
1854number	19,047	74,276	19,441
1855number	14,049	54,954	26,508
1856number	25,283	<b>72,713</b> .	41,467
1857number	39,799	75,174	44,972
1858number	32,522	136,849	41,354
1859number	17,606	42,476	23,695
1860number	18,266	33,350	34,685
1861number	32,275	43,243	39,630
1862number	18,938	25,024	29,033

The sources of supply are Ohio, Indiana, Michigan, Wisconsin, Illinois, and Canada West.

This does not show the extent of the trade in live stock, as a large number are daily coming here by the different railways converging at this point.

The following exhibit of the totals of receipts at the different yards for several years will more nearly approximate to the true state of the trade in live stock. The receipts by lake include the imports by the Buffalo and Lake Huron railway, both of which being deducted from the total receipts at the several yards in each year, will show more nearly the receipts of live stock by the Lake Shore railway for the several years indicated:

Car	ttle. H	ogs. She	ер.
1857number 108	203 307	,549 117,	468
1858number 136,	043 345	,731 92,	194
1859number 103,	337 189	,579 73,	619
1860number 150,	972 145	,354 85,	770
1861number 141		,952 101,	679
1862number 129	, <b>4</b> 33 524	,916 105	671
	Cattle.	Hogs.	Sheep.
1862. Receiptsnumber	129, 433	524, 976	105, 671
Less by lakenumber	18, 938	35, 024	29, 033
By State Line railroadnumber	110, 495	489, 952	76, 638
1861. By State Line railroadnumber	109, 354	195, 709	<b>64,</b> 049
Increasenumber	1, 141	294, 243	12, 589

It will be seen by the foregoing statement that of the totals of receipts at the different yards 110,495 cattle, 489,952 hogs, and 76,638 sheep were received by the Buffalo and State Line and Niagara Falls railways, nearly all of which came by the former road.

The magnitude of the trade in live stock when expressed by the valuation in money will be about the following estimate, viz:

129,433 cattle, at \$50	3, 674, 832
Total valuation	10, 463, 495

The valuation of this report is in excess of those before assumed as regards cattle, but otherwise somewhat less. It cannot be far from correct.

Hides were imported by lake as follows:

•	No.		No.
1852	95,452	1858	148,950
		1859	
1854	67.427	1860	78,837
		1861	
1856	111,856	1862	268,685
1857	139,051		

The imports and exports of hides by the Erie canal were as follows:

	Received.	Shipped.
1856	.pounds 442,525	469,465
1857		780,85 <b>5</b>
1858		569, <b>312</b>
1859	.pounds 386,789	342,029
1860	.pounds 137,345	79,431
1861		189,258
1862	.pounds 193,503	486,003

The following will show the receipts by lake and canal from 1855 to 1862, inclusive:

	Receipts by lake. Rolls, No.	Receipts by canal. pounds.
1855	. 2,265	1,886,236
1856	2,326	1,603,057
1857	2,513	714,135
1858	4,291	800,863
1859	5,342	1,172,260
1860	1,508	1,172,417
1861	3,778	· (*)
1862	. 3,159	1,108,88 <b>3</b>

The following will show the lake imports and canal exports of wool from 1856 to 1862, inclusive:

	Lake imports. Wool, bales.	Canal exports. Wool, lbs.
1856	41,592	2,009,497
1857	. 35,613	1,325,289
1858	. 31,485	1,736,883

O No report of receipts by canal in 1861.

1859	<b>32,4</b> 80	1,747,556
1860		1,079,942
1861		1,288,394
1862		1,371,098

There is a very considerable amount of wool received here by rail, of which we are unable to obtain any accurate account, which will augment the receipts as given above.

Since the opening of the five great through lines of railway the transportation of this commodity has been divided between these railway lines and the New York canals, the former taking nearly the whole amount moved to eastern markets.

The following table shows the miscellaneous receipts at Buffalo by a comparatively new line—the Buffalo and Lake Huron railroad—connecting with Port Sarnia, at the outlet of Lake Huron:

Statement showing the receipts at Buffalo by the Buffalo and Lake Huron railway for the year ending December 31, 1862.

Articles.	Quantity.	Articles.	Quantity.
Apples, driedbarrels	367	Ginseng casks	10
Ashescasks	142	Glassware package	1
Alcoholbarrels	250	Horsesnumber	313
Buckwheatbushels	10	Hogs, livenumber	22,687
Beefbarrels	5,181	Hidesnumber	4,700
Bacon pounds7	<b>7,508,660</b>	Hoop-polesnumber	2,969,300
Barley bushels	112,122	Hogs, dressednumber	4,383
Butter pounds	224,237	Hempbales	109
Boat kneesnumber	664	Hopsbales	2
Beansbushels	<b>5,346</b> .	Ironpounds	668,302
Bladdersbarrels	19	Lumberfeet	3,985,300
Broom-corn bales	138	Lardpounds	1,920,740
Barrels, emptynumber	900	Lathpieces	437,200
Buffalo robes bales	82	Leather rolls	7
Beeswax pounds	100	Lead pounds	19,600
Copperbarrels	2,096	Mill feed pounds	161,400
Cheesepounds	16,650	Molassesbarrels	. 2
Copper platesnumber	570	Nails kegs	16
Corn mealbarrels	1,926	Nutsbarrels	59
Cloverseed bushels	2,845	Oatmealbarrels	90
Oattle number	16,215	Oatsbushels	4,852
Coppertons	544	Oil barrels	42
Corn bushels	109,209	Onionsbushels	3
Cottonbales	521	Porkbarrels	11,969
Candlesboxes	361	Peas bushels	12,387
Oranberries barrels	28	Potatoes bushels	71
Cedar postsnumber	100	Pilesnumber	2,340
Deer, dressednumber	32	Peltsbundles	161
Eggs barrels	1,046	Ragssacks	1,314
Flour barrels	187,402	Railroad tiesnumber	2,600
Fish barrels	129	Ryebushels	2,314
Flax pounds	7,925	Stavesnumber	274,800
Flaxseed bushels	56	Stave boltscords	94
Furspackages	64	Sheepnumber	23,140
Feathers sacks	43	Skins bundles	973
Greasepounds	264,400	Sundries pounds	458,900

Shingles number	165.500	Timber feet	9,250
Sheep, dressednumber	127	Turnips bushels	2
Sheep-pelts bundles	165	Tobaccohogsheads	31
Stoneboxes	80	Tobaccoboxes	162
Tallowpounds	249,720	Whiskey barrels	2,998
Tow bales	43	Woolbales	1,415
Timothy seed bushels	3,877	Wheat bushels	600,719
Tobaccobarrels	5	Woodcords	144
Tailsbales	19		

The preponderance of through freights is large, apparently, though it is impossible to distinguish that originating in Canada from that shipped by lake to Port Sarnia, and thence taking the railroad to Buffalo.

The following is a table of general receipts at Buffalo from the lake in 1862, including the Lake Huron railroad, and it embraces the greatest attainable quantities of miscellaneous western freight sent eastward from the lakes exclusively:

Articles.	Quantity.	Articles.	Quantity.
Ashes, casks	3, 046	Cider, barrel	. 1
Alcohol, barrels	<b>15,</b> 580	Cranberries, barrels	138
Apples, dried, barrels	846	Copper, packages	44
Ale, barrels	16	Deer, dressed, No	32
Buckwheat, bushels	10	Eggs, barrels	4, 173
Bones, sacks	5, 073	Flour, barrels	2, 846, 022
Bones, hogsheads	134	Fish, barrels	8,647
Bones, tons	225	Feathers, sacks	247
Boat knees, No	. 901	Flax, pounds	<b>7</b> , 92 <b>5</b>
Beeswax, packages	114	Furs, boxes	66
Bread, boxes and barrels	70, 361	Flax seed, bushels	36, 812
Beans, bushels	21, 048	Glassware, packages	6, 441
Barrels, empty, No	5, 345	Glass, tons	35
Barley, bushels	423, 124	Grease, pounds	<b>1,4</b> 21,594
Beef, barrels	123, 301	Glue, packages	1, 090
Bacon, pounds	<b>25</b> , 687, 657	Grindstones, No	1, 631
Butter, pounds	<b>4</b> , 119, 173	Gunstocks, tons	3, 106
Broomcorn, bales	8, 8 <b>39</b>	Gunstocks, barrels	972
Brick, No	5, 000	Gunstocks, No	<b>3</b> 5, 399
Buffalo robes, No	82	Gunstocks, boxes	59
Bladders, barrels	19	Ginseng, packages	136
Barytes, barrels	86	Horses, No	445
Broom-handles, No	5, 750	Hogs, live, No	35, 024
Copper, barrels	9, 077	Hogs, dressed, No	7, 606
Copper, tons	2, 373	Hoop-poles, No	5, 867, 290
Cedar posts, No	991	Hoops, No	7, 977, 137
Candles, boxes	9, 995	Hides, No	<b>26</b> 8, 685
Corn, bushels	<b>24,</b> 288, 627	Hemp, bales	2, 301
Corn meal, barrels	34, 268	Hair, bales	835
Coal, tons	84, 523	Horns, sacks	5, 545
Cattle, No	18, 938	Hay, bales	28
Cheese, pounds	1, 313, 030	Hops, bales	316
Cotton, bales	7, 282	Iron, pounds	8, 329, 811
Clover seed, bushels	5, 047	Iron, pig, tons	3, 168
Copper bars, No	458	Iron ore, tons	10, 027
Copper, plates	1, 179	Junk, pounds	28, 780
Clay, barrels	492	Lead, pounds	8,535,992

Articles.	Quantity.	Articles.	Quantity.
Lard, pounds	22, 471, 204	Rafts, No	1
Lumber, feet	125, 289, 971	Staves, No	30, 410, 252
Leather, rolls	3, 159	Sundries, pounds	6, 889, 009
Lath, packs	959,750	Shingles, No	21, 782, 680
Molasses, barrels	2	Shooks, bundles	61, 875
Moss, bales	. 50	Skins, bundles	1, 822
Malt, bushels	6, 750	Stone, tons	336
Mill feed, pounds	247, 300	Ship-knees, No	1,662
Nails, kegs	16, 490	Ship-knees, tons	693
Nuts, barrels	184	Sheep, No	<b>29,</b> 033
Oats, bushels	<b>2,</b> 62 <b>4,</b> 932	Steel, pounds	160, 220
Oatmeal, barrels & bags	133	Sand, tons	540
Onions, bushels	221	Starch, packages	9, 842
Oil-cake, sacks	46, 798	Soap, boxes	972
Oil-cake, tons	1, 446	Stave-bolts, cords	411
Oil-cake, barrels	459	Saw logs, No	280
Oars, No	288	Salt, barrels	118
Oars, feet	114, 820	Sheep, dressed, No	127
Oil, barrels	9,862	Stearine, barrels	72
Oil-cake, pounds	1, 075, 650	Stone, boxes	80
Potatoes, bushels	18, 409	Stone pipe, pieces	299
Peas, bushels	78, 266	Tallow, pounds	4, 363, 884
Peaches, bags	31	Tobacco, hogsheads	5, 269
Provisions, bbls. & t'c's	6, 809	Tobacco, barrels	1,026
Pork, barrels	171, 552	Tobacco, boxes	7, 261
Paint, barrels	154	Tobacco, casks	1, 498
Pickets, No	5, 490	Tobacco, buts	785
Plaster, tons	275	Tails, bales	19
Pelts, bundles	524	Timber, cubic feet	83,000
Piles, No	24, 036	Timothy seed, bushels.	51, 278
Paper, bundles	4, 167	Tow, bales	401
Pike-poles, No	70	Wool, bales	42,619
Paraffine, boxes	165	Wheat, bushels	30, 435, 831
Rye, bushels	791, 564	Wood, cords	11,978
Rags, sacks	8,965	Whiskey, barrels	97, 673
Railroad ties, No	33, 615	Wine, packages	25
Rack-sticks, No	186, 000	1	

## THE EXCHANGE OF GENERAL MERCHANDISE EASTWARD AND WESTWARD AT BUFFALO.

The exchanges at Buffalo, conducted at the terminus of the Eric canal, can only be stated from the form of records kept on the canals, indefinitely classified as "products of the forest," "products of animals," &c. The following is the general statement in this form:

Statement showing the eastward movement of freight from Buffalo, by the Erie canal, for nine years.

Years.	Products of the forest.	Products of ani- mals.	Vegetable food,	Other agricultu- ral products.	Manufactures.	Merchandise.	Other articles.	Total.	Total value.
1854	Tons. 154, 816	Tons. 42,750	Tons. 457, 153	Tons, 5, 874	Tons. 5,505	Tons. 1,992	Tons. 23, 226	Tons. 691, 216	\$26, 936, 702
1855	151,994	25, 628	481, 044	2, 418	7, 149	4, 457	19, 254	688, 107	29, 258, 437
1856	137,851	10, 611	493, 132	992	1,962	1,040	16,650	662, 238	21, 970, 119
1857	166,780	4,868	367, 529	827	6,804	521	24,191	571,520	16, 956, 740
1858	165, 597	23, 588	529, 649	2,093	18, 184	3,888	23, 497	776, 496	24, 267, 171
1859	281,664	14, 232	296, 447	1,372	9, 553	2,909	53, 363	659, 540	16, 236, 991
1860	293,048	3, 106	755, 549	289	6,012	3,982	51,768	1, 113, 754	24, 412, 883
1861	176, 325	4,708	1, 323, 658	491	18, 118	2,456	53,989	1, 579, 745	33, 300, 920
1862	301,219	35, 256	1, 575, 468	1, 163	16, 130	5,224	46, 522	1,980,982	53, 424, 992

Statement showing the receipts of westward moving freight at Buffalo, by the Eric canal, for nine years.

Years.	Products of the forest.	Products of ani-	Vegetable food.	Other agricultu- ral products.	Manufactures.	Merchandise.	Other articles.	Total.	Merchandise go- ing to western States and Can- ada.
1854	Tons. 48, 105	Tons.	Tons. 2,212	Tons. 108	Tons. 59,116	Tons. 190, 459	Tons. 80, 263	Tons. 380,772	Tons. 167, 550
1855	58,536	367	8, 221	109	87,709	171, 176	77, 991	404,108	145, 530
1856	67,798	300	10.347	203	61,473	149, 769 85, 766	85, 314	375, 204	114, 696
1857	76,046	85	5, 473	311	51,062	85, 766	100, 206	318,949	74, 733
1858	46,699	297	4,872	516	55,610	56, 301	54,670	218,965	47, 350
1859	26,853	281 93	7,749	340	67,396	85, 668	60, 983	249, 271	72, 767
1860	26,933	93	4, 871	206	60,199	84, 152	69,730	246, 184	72,030
1861	16,015	103	4,779	93	90,068	84, 152 42, 096 63, 212	86,732	239,883	35, 278
1862	23,094	100	4,859	124	120,705	63, 212	141, 328	353, 422	*********

The shipments of flour and grain by canal, it will be seen, cover the greater share of the receipts before stated, confirming the position assumed, that the receipts and shipments of western produce may be considered as substantially identical.

The following comparative statement shows the shipments of flour and grain by canal from Buffalo for four seasons:

Flour barrels	1862. 451, 814	1861. 306, 236	1860. 180, 853	1859. 220, 486
Wheat bushels Oorn bushels Barley bushels Bye bushels	22, 487, 185 2, 164, 778	23, 713, 713 19, 112, 125 1, 705, 395 134, 341 337, 764	13, 951, 458 10, 306, 048 1, 282, 646 130, 189 80, 822	6, 168, 068 2, 159, 538 953, 169 308, 526 124, 693
Totals	53, 258, 973	45, 003, 338	25, 751, 163	9, 713, 994

The commercial statements prepared at Buffalo supply the deficiency only for a limited period.

The following is a statement of the quantities of produce of all distinguishable articles sent eastward by the Erie canal from Buffalo:

General exports from Buffalo eastward by canal.

1, 366 91, 602, 567 47, 262 264, 838, 920 5, 466 6, 460 · 4, 452 754, 289 169, 418 106, 660 1, 079, 942 79, 431 180, 853 13, 951, 458 50, 804 13, 306, 048 130, 189	1, 156 33, 343, 470 19, 401 234, 760, 766 4, 290 17, 341 212, 416 58, 955 80, 671 682, 778 1, 368, 394 173, 441 306, 236 23, 713, 713 282, 724	1, 059 88, 327, 978 14, 570 297, 357, 527 126, 421 53, 826 4, 242, 453 80, 238 103, 807 6, 549, 454 1, 371, 098 486, 003 451, 814 27, 751, 786
91, 602, 567 47, 262 264, 838, 920 5, 466 6, 460 · 4, 452 754, 289 169, 418 106, 660 1, 079, 942 79, 431 180, 853 13, 951, 458 50, 804 13, 306, 048	33, 343, 470 19, 401 234, 760, 766 4, 290 17, 341 212, 416 58, 955 80, 671 682, 778 1, 968, 394 173, 441 306, 236 23, 713, 713	88, 327, 978 14, 570 297, 357, 527 126, 421 53, 826 4, 242, 483 80, 238 103, 807 6, 549, 454 1, 371, 988 486, 003 451, 814
47, 262 264, 838, 920 5, 466 6, 460 4, 452 754, 289 169, 418 106, 660 1, 079, 942 79, 431 180, 853 13, 951, 458 50, 804 13, 306, 048	19, 401 234, 760, 766 4, 290 17, 341 212, 416 58, 955 80, 671 682, 778 1, 968, 394 173, 441 306, 236 23, 713, 713 282, 724	14,570 297,357,527 126,421 53,826 4,242,483 80,238 103,807 6,549,454 1,371,098 486,003 451,814
264, 838, 920 5, 466 6, 460 · 4, 452 754, 289 169, 418 106, 660 1, 079, 942 79, 431 180, 853 13, 951, 458 50, 804 13, 306, 048	234, 760, 766 4, 290 17, 341 212, 416 58, 955 80, 671 682, 778 1, 368, 394 173, 441 306, 236 23, 713, 713 282, 724	297, 357, 527 126, 421 53, 826 4, 242, 483 80, 238 103, 807 6, 549, 454 1, 371, 098 486, 003 451, 814
5, 466 6, 460 4, 452 754, 289 169, 418 106, 660 1, 079, 942 79, 431 180, 853 13, 951, 458 50, 804 13, 306, 048	4, 290 17, 341 212, 416 58, 955 80, 671 682, 778 1, 988, 394 173, 441 306, 236 23, 713, 713 282, 724	126, 421 53, 826 4, 242, 483 80, 238 103, 807 6, 549, 454 1, 371, 098 486, 003 451, 814
6, 460 · 4, 452 754, 289 169, 418 106, 660 1, 079, 942 79, 431 180, 853 13, 951, 458 50, 804 13, 306, 048	17, 341 212, 416 58, 955 80, 671 682, 778 1, 988, 394 173, 441 306, 236 23, 713, 713 282, 724	53, 826 4, 242, 483 80, 238 103, 807 6, 549, 454 1, 371, 098 486, 003 451, 814
. 4, 452 754, 289 169, 418 106, 660 1, 079, 942 79, 431 180, 853 13, 951, 458 50, 804 13, 306, 048	212, 416 58, 955 80, 671 682, 778 1, 968, 394 173, 441 306, 236 23, 713, 713 282, 724	4, 242, 483 80, 238 103, 807 6, 549, 454 1, 371, 098 486, 003 451, 814
754, 289 169, 418 106, 660 1, 079, 942 79, 431 180, 853 13, 951, 458 50, 804 13, 306, 048	58, 955 80, 671 682, 778 1, 368, 394 173, 441 306, 236 23, 713, 713 282, 724	80, 238 103, 807 6, 549, 454 1, 371, 098 486, 003 451, 814
169, 418 106, 660 1, 079, 942 79, 431 180, 853 13, 951, 458 50, 804 13, 306, 048	80, 671 682, 778 1, 368, 394 173, 441 306, 236 23, 713, 713 282, 724	103, 807 6, 549, 454 1, 371, 098 486, 003 451, 814
106, 660 1, 079, 942 79, 431 180, 853 13, 951, 458 50, 804 13, 306, 048	682,778 1,368,394 173,441 306,236 23,713,713 282,724	6, 549, 454 1, 371, 098 486, 003 451, 814
1,079,942 79,431 180,853 13,951,458 50,804 13,306,048	1, 988, 394 173, 441 306, 236 23, 713, 713 282, 724	1, 371, 098 486, 003 451, 814
79, 431 180, 853 13, 951, 458 50, 804 13, 306, 048	173, 441 306, 236 23, 713, 713 282, 724	486, 003 451, 814
180, 853 13, 951, 458 50, 804 13, 306, 048	306, 236 23, 713, 713 282, 724	451, 814
13, 951, 458 50, 804 13, 306, 048	23,713,713 282,724	
50, 804 13, 306, 048	282, 724	1 77 751 756
13, 306, 048		653, 480
	19, 112, 125	22, 487, 185
100, 100	134, 341	201,744
1, 282, 646	1,705,395	2, 164, 778
		5, 299, 674
		58, 689
		11,770
17,004	002,000	2, 320
117	19 601	1, 250
		680, 550
		000,000
		473, 981
		1, 170, 819
		357
		1,520,280
		14, 42
		238, 47
		200, 411
		9, 551, 666
2,000	100,000	2,700,92
79 934	128, 961	368, 907
		12,600
		6, 147, 35
	2,011,110	0, 141, 00
	120, 277	141, 30
		1,418,77
		9, 185, 37
		57, 894, 00
		6, 283, 30
		19, 675, 08
20,010,170		7,214,11
		1,84
		2,731,63
The state of the s	3, 921, 731 62, 205 3, 534 117 21, 153 96, 412 158, 839 295, 328 5, 382 631, 186 30, 172 332, 175 6, 159, 988 4, 000 79, 234 16, 700 2, 493, 445 317, 838 298, 675 1, 390, 414 146, 543 71, 972, 850 5, 587, 812 18, 840, 172	3, 921, 731

The following approximate calculation of values for this eastward freight sustains the estimate of total values made in the report of the State auditor of New York. That report gives the sum of \$72,131,136 as the value of property "from other States" going eastward on the canal in 1862. It is here shown that nearly the sum of \$60,000,000 in value left Buffalo, and it is clear that the other points of receipts of canal freight—Tonawanda, Black Rock, and Oswego—would add \$12,000,000 to \$15,000,000 in addition.

## Calculation of values of eastward freight by canal from Buffalo in 1862.

Ashes, casks, 1,059, at \$10 per cask	. \$10,59 <b>0</b>
Lumber, feet, 88,327,978, at \$15 per M	. 1, 324, 920 🗸
Timber, cubic feet, 1,475,000, at \$20 per M	. 29, 500
Staves, tons, 148,678, at \$30 per ton	. 4, 460, 34 <b>0</b>
Pork, barrels, 126,421, at \$15 per barrel	. 1, 896, 315 🗸
Beef, barrels, 53,826, at \$10 per barrel	. 538, <b>260 </b> ✓
Bacon, pounds, 4,242,483, at 10 cents per pound	. 424, 248
Cheese, pounds, 80,238, at 10 cents per pound	. 8, 02 <b>3</b>
Butter, pounds, 103,807, at 15 cents per pound	. 15, 571
Lard, pounds, 6,549,454, at 10 cents per pound	654, 9 <b>45</b>
Wool, pounds, 1,371,098, at 60 cents per pound	. 822, 65 <b>9</b> √
Hides, pounds, 486,003, at 10 cents per pound	<b>48, 600</b>
Flour, barrels, 451,814, at \$6 per barrel	2, 710, 884 V
Wheat, bushels, 27,751,786, at \$1 10 per bushel	30, 526, 96 <b>4</b>
Rye, bushels, 653,480, at 70 cents per bushel	477, 436
Corn, bushels, 22,487,185, at 50 cents per bushel.	11, 243, 59 <b>2</b>
Barley, bushels, 201,744, at \$1 per bushel	201, 744
Oats, bushels, 2,164,778, at 45 cents per bushel	
Bran, bushels, 5,299,674, at 20 cents per bushel	
Peas and beans, bushels, 58,682, at \$1 per bushel.	
Dried fruit, pounds, 11,770, at 10 cents per pound	1, 177
Cotton, pounds, 2,320, at 60 cents per pound	1, 39 <b>2</b>
Potatoes, bushels, 1,250, at 50 cents per bushel	
Tobacco, pounds, 680,550, at 25 cents per pound	
Seeds, pounds, 473,891, at \$3 per bushel	23, 694
Flax seed, pounds, 1,170,819, at 4 cents per pound	
Hops, pounds, 357, at 25 cents per pound	506, <b>760</b>
Spirits, gallons, 1,520,280, at 331 cents per gallonLeather, pounds, 14,429, at 25 cents per pound	3, 607
Furniture, pounds, 238,474	10, 00 <b>0</b>
Pig iron, pounds, 9,551,666, at \$50 per ton	238, 791
Bloom and bar iron, pounds, 2,700,921, at \$70 per ton	94, 538
Castings, pounds, 368,907, at 5 cents per pound	18, 4 <b>46</b>
Salt, pounds, 12,600.	200
Iron and steel, pounds, 6,147,357, at 10 cents per pound	614, 735
Crockery, pounds, 141,304, at 10 cents per pound	14, 130
Merchandise, pounds, 1,418,776, at 20 cents per pound	283, 7 <b>55</b>
Stone, lime, and clay, tons, 4,593, at \$10 per ton	45, 930
Coal, tons, 28,947, at \$7 per ton	192, 629
Copper ore, pounds, 6,283,308, at 5 cents per pound	314, 165
Sundries, pounds, 19,675,081, at 10 cents per pound	1,967,508
Oil-cake, tons, 3,607, at \$50 per ton	180, 350
Molasses, pounds, 1,843, at 10 cents per pound	184
Nails and spikes, pounds, 2,731,638, at 10 cents per pound	273, 164
Total value	<b>62, 4</b> 89, 5 <b>43</b>

The following statement gives the detail of articles brought westward to Buffalo by the Eric canal for three years:

Imports into Buffalo by the Erie canal, 1860 to 1862.

Articles.	1860.	1861.	1862.
Lumber feet	277,055	381, 381	119,797
Timber hundred cubic feet	29, 288	11,470	145, 881
Stavespounds	691,000	1, 101, 000	
Woodcords	9,075	5, 214	5,743
Cheesepounds	4,660	650	916
Hidesdodo	137, 843	189, 258	193, 503
Flourbarrels	3,957	2,788	521
Wheatbushels	24, 198	49,942	3, 108
Ryedo	24, 115	5,416	
Corndo	64,823	80,760	403
Barleydo	24, 208	3,900	
Oatsdo	8,734	2,732	
Bran, &cpounds	111,500	370,000	222, 526
Beans and peasbushels	448		
Potatoesdodo	10,237	3, 368	7,374
Dried fruitpounds	261, 354	2,667	250, 311
Hopsdo	385, 864	108,740	84, 449
Domestic spirits gallons	102, 200	161,547	11,853
Leather pounds	12, 414	18,630	1, 108, 883
Furnituredodo	1, 285, 857	1, 367, 473	1,894,764
Pig irondo	13, 798, 369	9, 272, 612	13, 970, 075
Castings, &cdodo	11, 425, 929	9, 596, 758	12, 251, 942
Domestic cottonsdodo	5,065		660, 236
Domestic saltdodo	92,949,269	159, 191, 278	177, 620, 435
Foreign saltdodo	112,563	46,615	32, 901, 873
Sugardo	31, 179, 468	11,518,606	27,581,579
Molassesdodo	16, 159, 122	5,059,570	8, 452, 769
Coffeedodo	2,848,048	2,029,795	1,979,114
Nails, spikes, &cdodo	2,772,372	1,217,783	2, 015, 039
fron and steeldo	13,621,569	6,294,029	4, 862, 421
Railroad irondodo	3,803,897	1,594,353	6,747,043
Crockery and glasswaredo	4,265,601	3,053,329	4, 824, 801
All other merchandisedo	93,652,751	49,488,661	69, 959, 473
Stone, lime, &cdodo	42,838,446	25,655,619	26, 659, 528
Gypsumdodo	573,550	302,700	400 277
Coaldo	68, 259, 212	134,788,746	193, 544, 612
Sundriesdo	27,785,110	12,710,181	18, 248, 172
fron oredodo		************	46, 198, 633

The following is an addendum comparing the grain receipts at Buffalo for 1863 with 1862:

Deficiency	in	wheat, as	compare	d '	with	1862	9, 195, 483	bushels.
"	"	corn,	"		"	1862	4, 201, 675	66
. 66	46	rye,	66		"	1862	369, 275	46
Increase in	18	63 in flour	, "		"	1862	132, 067	barrels.
66	66	66	"		"	1861	818, 498	66
Deficiency	in	totals of	grain,	a.s	compared with	1862	8, 190, 498	bushels.
"		66	"		ű.	1861	3, 208, 433	"

#### LAKE TRADE AT TORONTO, CANADA.

The relation held by towns and ports of Canada to the general lake trade, and particularly to the movement of flour, grain and produce eastward, is one of the most interesting and important branches of inquiry into its character. The statistics of many of these points are, however, difficult, if not impossible of collection. The trade is irregular as well as large, and it is often through points of mere transit, along new lines of railroad, or of propeller shipment on the lakes. The principal feature apparent at the outset is the general tendency to return to the United States markets all along the frontier, and even from Montreal.

The following table gives the quantities and destination of the leading exports from Toronto for a series of years:

Exports of flour and wheat from Toronto, and destination.

. Destination.	185	7.	185	8.	185	9.
-	Flour.	Wheat.	Flour.	Wheat.	Flour.	Wheat.
Oswego	Barrels. 27, 769	Bushels, 163, 398	Barrels. 15, 160	Bushels. 257, 068	Barrels. 16,037	Bushels. 580, 200
Ogdensburg	35, 721 17, 169	120, 550 102, 261	8, 596 893	100, 156 103, 261	19, 327 1, 448	109, <b>35</b> ; 145, <b>24</b> ;
Rochester	8, 236 38, 571 11, 400	39, 644 29, 592 6, 825	1, 992 79, 845 9, 270	31, 604 67, 557 11, 010	29, 310 1, 955	87, 99 13, 37 8, 77
Other ports	23, 621	505, 622	15, 960	16, 817 579, 833	4, 655 72, 652	25, 62 970, 56

### Exports of flour and wheat from Toronto, and destination—Continued.

Destination.	186	io.	186	i1.	186	2.
Desillation	Flour.	Wheat.	Flour.	Wheat.	Flour.	Wheat.
Oswego Ogdensburg Cape Vincent Rochester Montreal Quebec Other ports	Barrels. 24, 212 20, 540 4, 788 49, 341 7, 200 72, 429	Bushels. 514, 108 80, 146 141, 961 67, 266 234, 171 5, 628 149, 129	Barrels. 30, 528 96, 479 3, 877 179 89, 391 6, 834 6, 021	Bushels. 395, 112 68, 015 70, 220 6, 369 587, 470 22, 274 119, 176	Barrels. 10, 627 8, 385 2, 824 450 70, 839 645 12, 404	Bushels. 273, 363 7, 566 106, 232 8, 025 483, 977 17, 743 36, 369
Total	178, 510	1, 192, 417	163, 737	1, 268, 629	106, 174	933, 275

### The following is a more detailed statement for 1862.

Destination.	Flour.	Wheat.	Barley.	Peas.
Oswego Cape Vincent Rochester Ogdensburg Montreal Quebec Other ports	Barrels. 10, 672 2, 824 450 8, 385 70, 839 645 12, 404	Bushels. 273, 383 106, 232 8, 025 7, 586 483, 977 17, 743 36, 329	Bushels. 919, 147	
TotalTotal 1861	106, 219 163, 737	933, 275 1, 268, <b>629</b>	219, 147 280, 806	47, 382 1,9, 810
Decrease	57, 518	335, 354	61, 659	72, 428
Total 1860	178, 510	1, 192, 417	*22A,14A	148,83

It is apparent that the larger amounts, up to the close of 1860, were sent to United States ports, from Rochester to Cape Vincent, since which year Montrea was the leading destination. As an average, the division is nearly equal between the United States and Canada, outward.

'The origin of these quantities is not clearly stated, but it is probable that a share was western State produce, previously entering Canada at Sarnia, the Welland canal or elsewhere, since Toronto appears as a point of destination in many of the statements for western shipping cities.

#### MONTREAL.

The produce and grain trade of Montreal also exhibits return shipments to the United States at Portland and Boston, though probably all for further export across the Atlantic. The imports to Montreal of flour and grain in 1862, and the exports to all points, are given in the following statement by the trade and commerce report of that city:

Imports of flour by Grand Trunk railroad	196	
Total		
Total receipts for the year	. 1, 362, 259	
Shipments of flour direct from Montreal	66, 123	"
Total exports	918, 370	<b>66.</b>
The exports of wheat show a still larger proportionate and Boston, undoubtedly for foreign export.	diversion to	Portland
Imports of wheat by Grand Trunk railroad	. 673, 779 . 7, 952, 782	bushels "
Total	8, 826, 561	46
Exports of wheat via St. Lawrence	478, 595	bushels "
Total exports	7, 216, 030	44

[The Meatreal Herald's annual review of the trade and commerce of Montreal for 1802.]

Exports of flour, grain, and produce from Montreal.

. !	SHIPA	SHIPMENTS IN 1861.			SHIPMENTS IN 1862.				
Articles.	By river St. Lawrence.	By Lachine. canal.	Total.	By river St. Lawrence.	By Lachine canal.	Total.			
Flour barrels. Wheat bushels. Peas do. Barley do. Oats do. Oatmeal barrels. Corn bushels. Ashes barrels. Butter kegs. Pork barrels. Lard do. Beef. tcs. and bbls. Tallow barrels.	5, 584, 727 1, 529, 136 2, 472 276, 375 25, 158 1, 477, 114 22, 147 49, 546 626 178 1, 618	10, 341 17, 044 2, 029 105 2, 800 244 176 2, 677	616, 283 5, 601, 771 1, 531, 165 2, 577 279, 175 25, 158 1, 478, 114 22, 391 49, 522 3, 303 178 1, 618	597, 477 6, 500, 796 711, 192 373 8, 072 4, 040 1, 774, 546 23, 135 59, 804 3, 225 455 222	28, 593 37, 257 1, 626 84 16, 716 963 700 4, 581 17	626, 070 6, 538, 053 712, 818 457 24, 788 5, 003 1, 774, 546 23, 835 59, 804 7, 906 472 222 189			

## Flour and grain trade of Montreal compared for three years, 1861 to 1863.

Articles.	18	61.	18	62.	` 18	63.
	Receipts.	Shipments.	Receipts.	Shipments.	Receipts.	Shipments.
Wheat bushels.	7,829,684	5,900,100	8,529,622	6,945,815	5,506,324	3,806,306
Corndo	1,565,477	1,477,114	1,661,611	1,774,347	855,328	635,38
Oatsdo	122,399	287,877	96,792	8,072	373,463	3,001,76
Peas do	1,409,859	1,409,859	534,679	727,277	l	
Barley do	132,749	2,457	236,930	373	294,524	640,380
Rye do	24,812		82,665	200	32,278	170
Flourbarrels.	1,081,160	654,966	.168,174	632,052	1,173,096	692,86
Meal, oat and corn.do.	21,221	32,015	2,426	4,039	1,789	9,35

### RECEIPTS AT OSWEGO.

The receipts of flour and grain at Oswego have been very large for many years, but no great quantity of provisions or miscellaneous western produce arrives there from the lakes. The following are the receipts of grain, in totals, by each of the leading routes bringing freight to that port, for 1862 and 1863:

Total receipts of grain at Oswego in 1862 and 1863.

	1862.	1863.
Welland canal	2, 071, 914 1, 296, 601 257, 273	Bushels. 9, 045, 613 1, 717, 371 292, 635 130, 957 2, 654, 385

The following is the detail of different grains received by different routes in 1863:

Routes.	Wheat.	Corn.	Oats.	Barley.	Rye.
By Welland canal	Bushels. 7, 037, 233 909, 053	Bushels. 1,808,800 720,460	Busho.'s. 48, 515 58, 600	Bushels. 93, 837 29, 258	Bushels. 52, 192
railway Collingwood	161, 984 107, 508	123, 533 23, 449			7, 118
Canadian linesLake Ontario	8, 215, 778 569, 647	2, 676, 242 125	107, 151 325, 996	123, 095 1, 791, 572	59, 310 57, 045
Total receipts	8, 785, 425	2, 676, 367	433, 147	1, 824, 667	116, 356

#### SUMMARY OF THE GENERAL MOVEMENT EASTWARD OF FLOUR AND GRAIN.

The summary of movement eastward in flour and grain having been made up with care in the Buffalo Board of Trade Report for 1862, for years preceding as well as including that particularly examined in this report, that statement will first be considered. It includes several points at which no regular reports have been made in any published or accessible form, and there is reason to accept them in most cases as sufficiently close approximations.

Statement showing the quantities of flour and grain sent eastward from the lake regions, comprising Ohio, Indiana, Michigan, Illinois, Wisconsin, Iowa, Minnesota, and Canada West, 1856 to 1862.

E		1856.	.9			1857.	57.	K		18	1858.		1859.	29.
несоноров от реализмания от реализм	Flour.	Wheat.	Соги.	Other gruin.	Flour.	Wheat,	Corn.	Other grein.	Flour.	Wheat.	Corn.	Other grain.	Flour.	Wheat.
West terminus of— Baltimore and Ohio railroad Pennsylvania Central railroad Dunkirk Buffio Suspension Bridge Ogeonsburg Capo Vincent Montreal Rochester	Barrels. 449, 797 215, 000 350, 000 1, 211, 189 304, 534 202, 930 354, 964 65, 000 712, 038	Bushels. 8, 465, 671 8, 382, 398 610, 937 500, 000 1, 546, 353	Bushele. 9, 639, 477 3, 589, 211 37, 975 45, 000 637, 969	Bushels. 467, 100 405, 872 2, 025, 519 900, 000 619, 280 37, 432 50, 000 67, 366 67, 366	Barrels. 426, 801 351, 072 354, 072 925, 411 180, 194 101, 363 60, 473 637, 652	Buehels. 93.423 148, 138 5, 383, 815 59, 383, 626 59, 373 477, 375 1, 708, 965	Bushels. 114, 652 5, 720, 413 2, 003, 992 407, 076 407, 383, 162	Bushels. 356, 183 206, 793 1, 321, 406 370, 249 14, 740 49, 408 38, 165	Barrels, 682, 314 450, 000 331, 007 331, 007 351, 007 351, 004 10 351, 5736 351, 664, 575 664, 575 7110	Bushels. 186, 449 10, 735, 900 102, 694 6, 572, 432 700, 131 410, 191 1, 769, 482	Bushele. 94, 905 5, 621, 668 720, 2913, 618 740, 000 105, 087	Bushels, 330,873,380,873,880,678,99,678,1589,489,44,196,156,601,156,537,9,865,99,	Barrels, 366, 403 360, 403 030 1, 502, 198 1, 374 04, 509 04, 509 0, 390	Bushels, 17, 800 263, 483 55, 908 57, 562 4, 875, 489 766, 716 638, 710 638, 710
Totals eastward 3	3, 865, 442	19, 505, 358	14, 282, 632	4, 592, 569	3, 397, 954	16, 763, 985	8, 779, 832	2, 256, 944	4, 499, 613 21	21, 843, 850	10, 495, 554	5, 035, 097	3, 760, 274	16, 865, 708

Statement showing the anantities of flour and grain sent eastward from the lake regions, be.—Continued.

	1859.	9.		1860,	.0			181	1861.			1862	33	
Accerved af	Corn.	Other grain.	Flour.	Wheat.	Corn.	Other grain.	Flour.	Wheat	Corn.	Other grain.	Flour.	Wheat	Corn.	Other grain.
West terminus of— Battimore and Ohio railroad Pennsylvania Central railroad Punkirk Buffalo Guyergo Ggebenin Bridge Ggevergo Ogdenshurg Gape Vincent Gotteral	Bushels. 3, 151, 387 804, 646 298, 519 20, 100 71, 430	Bushels. 196,466 116,466 11,493,140 73,346 1,342,010 216,435 204,652 8,900	Barrele. Bus 352, 413	Bushels. 500, 888 18, 502, 649 9, 449, 461 503, 878 565, 028 2, 686, 728 425, 765	Bushels. 644.081 11,386,217 4,966,952 77,300 867,014 138,214	Busheld. Barrally. 321, 196, 329 271, 200, 200, 200, 200, 200, 200, 200, 20	Barrels. Bus 270,000 1,045,029 2,159,591,27,10 117,087,915 441,468 65,407 937,384 937,384 937,384 937,384 937,384 937,384 937,384 937,384 937,384	Bushels. B 604, 561 27, 105, 219 21, 9, 809, 445 5, 677, 286 1, 276, 610 7, 390, 655 1, *530, 618	Bushels. 230, 400 21, 024, 657 5, 508, 739 1, 119, 534 1, 516, 767	Buesleis. 80,000 11,948,256 2,532,770 2,673,948 1,796,213 25,686 104,507 1,504,507 1,504,507	Barrels. *630, 000 890, 656 11, 955, 362 8875, 000 8875, 000 776, 384 48, 576 11, 101, 475 11, 000	Bushels. 112, 061 10, 435, 831 0, 982, 132 68, 930 316, 403 8, 012, 773 *150, 000	Bushels. 149, 654 24, 288, 627 1, 150, 176 12, 249, 369 12, 649, 136	Rushels. *550,000 1,622,893 10,173 3,849,620 2,750,000 1,467,823 49,645 49,047 4519,896 *6,622
Totals eastward	4, 423, 096 4, 264, 051		4, 106, 057 32, 334,	12, 334, 391	391 18, 075, 778	7, 712, 032	6, 533, 869	46, 384, 144	29, 524, 628	46, 384, 144 29, 524, 628 10, 686, 115 8, 359, 910 50.	8, 359, 910	50, 609, 130	609, 130 32, 985, 923 10,	10, 844, 939

The percentage of the total carried by each of the several lines is given by the same authority, as follows:

Table showing the per cent. of receipts at the principal receiving points for six years from 1857 to 1862, inclusive of the foregoing eastward movement.

Locality.	1857.	1858.	1859.	1860.	1861.	1862.
Buffalo Oswego Montreal W. Ter. B. & O. R. R. Ogdensburg West Ter. Pa. C. R. R Dunkirk Suspension Bridge Cape Vincent Rochester	4.3 4.4 2.3	47.1 19.2 9.2 6.5 6.0 4.3 3.4 2.0 1.8	50.0 17.1 8.7 5.7 5.8 4.2 5.6 0.7	47. 2 21. 7 9. 2 2. 4 3. 5 3. 9 4. 2 6. 5 0. 8	51.5 15.5 12.6 3.0 3.4 4.1 3.8 5.4 0.6	53.4 13.3 12.3 2.9 3.4 4.4 4.3 5.3 0.7
	100.0	100.0	100.0	100.0	100.0	100.0

The following is a comparison of total quantities of flour and grain moved eastward for seven years, to 1862:

Table showing the variations in the movement eastward from 1856 to 1862.

	Corn.	Other grain.
19, 505, 358 16, 763, 285 21, 843, 850 16, 865, 708 32, 334, 391 46, 384, 144	14, 282, 632 8, 779, 832 10, 495, 554 4, 423, 096 18, 075, 778 29, 524, 628	4, 592, 569 2, 256, 914 5, 035, 097 5, 264, 051 7, 712, 032 10, 656, 116 10, 844, 939
	46,384,144 50,699,130	

Reducing the flour to bushels of wheat, the following table will show the total eastward movement, in bushels, and the receipts at Buffalo for the years indicated:

	Total eastward movement.	Receipt at Buf- falo.	Buffalo per cent. of total move-
1856	57,707,769 44,789,851	26, 239, 791 20, 052, 689	45.5
1858 1859	59, 872, 566 44, 354, 225	28, 219, 855 22, 215, 425	45.5 44.8 47.1 50.0
1860 1861	78, 652, 486 119, 264, 233	37, 133, 461 61, 460, 601	47.2 51.5
1862	136, 329, 542	72, 794, 188	53, 4

# GENERAL TABLES OF THE TONNAGE AND TRANSPORTATION OF THE ERIE CANAL. Capacity, passages, and aggregate carriage of Erie canal boats eastward.

Years.	Average cargo of boat,	Days' time be- tween Buffalo and Albany.	Toll & freight on a barrel of flour.	Tons delivered at tide-water from the Erie canal.
1841	41	9	\$0 71	532, 520
1844	49	71	60	799, 816
1847	67	101	77	1,431,252
1848	71	9	58	1, 184, 337
1849	68	84	56	1,266,724
1850	76	9	58	1,554,675
1851	78	81 9 9	49	1,508,677
1852	80	9	53	1,644,699
1853.	84	9	56	1,851,438
1854	94	81 81	52	1,702,693
1855.	92	81	52	1, 420, 715
1856	100	81	60	1,587,130
1857	100	81	46	1, 117, 199
1858	126	81	34	1, 496, 687
1859	143	81	31	1,451,333
1860	140	81	42	2, 276, 061
1861	157	81	46	2, 449, 609
1862	167	81 81 81 81 81	48	2,917,094

# Quantities of flour, distinguishing western and New York reaching tide-water through the Erie canal.

Years.	Barrels from west'n States.	Barrels from New York.	Barrels arriving at tide- water.	Price.
1837	284, 902	747,676	1,032,578	\$9 50
1838	552, 283	637,036	1,189,319	8 50
1839		425, 544	1, 109, 053	6 50
1840	1,066,615	1,080,084	2, 146, 699	4 84
1841	1, 232, 987	596,657	1,829,644	6 00
1842		543,064	1,776,051	5 18
1843	1,568,645	670,532	2, 239, 177	4 56
1844	1,727,714	746,939	2, 474, 653	4 50
1845	1,553,740	1,288,416	2,842,156	5 57
1846		929, 330	3, 652, 804	5 05
1847	3,989,232	791, 106	4,780,338	6 84
1848	2,983,688	770, 114	3,753,802	5 58
1849		886, 938	3, 739, 759	5 00
1850	3, 084, 959	905, 277	3, 990, 236	5 00
1851	3, 495, 734	495, 467	3, 991, 201	4 00
1852	3,937,366	877,731	4, 815, 097	4 53
1853		957, 984	4, 950, 273	5 77
1854	1,586,961	367, 252	1,954,213	9 25
1855	2,596,780	*	2, 375, 415	9 75
1856	3, 209, 741	276,034	3, 485, 775	7 60
1857		*	1,988,226	6 53
1858	3,778,069	*	3, 563, 901	5 50
1859	2,210,620	*	1,925,402	5 70
1860	4,344,387	737, 321	5,081,708	5 75
1861		745,022	7,457,255	5 50
1862	7,516,397	843, 685	8, 360, 082	6 00

<sup>\*</sup>The arrival at tide-water in these years, being less than the quantity from western States, is proof of one of two things—either that none of the surplus product of this State came by the canal in those years, or that, if it did, its place was supplied from the west.

Townage of wheat and flour eastward to the Hudson river on the Erie canal.
with the points of shipment, and the total value.

Years.	From Buf- falo.	From Black Rock and Tonawanda.	From Os- wego.	From way stations.	Total ton- nage.	Total value.
T	Tons.	Tons.	Tons.	Tons.	7778	Every Control
1837	27, 206		7,429	81,856	116,491	\$9,640,156
1838	57,977		10,010	65,093	133,080	9,883,586
1839	60,082	7,697	15, 108	41,796	124,683	7,217,841
1840	95, 573	12,825	15,075	121, 389	244,862	10, 362, 862
1841	106, 271	24, 843	16,677	53, 569	201,360	10, 165, 355
1842	107, 522	13, 035	14, 338	63, 336	198,231	9, 284, 778
1843	146, 126	12,882	25, 858	63, 914	248,780	10, 283, 454
1844	145, 510	15,669	42, 293	74, 391	277,863	11,211,677
1845	118, 614	17,066	44,560	140, 223	320,463	15,962,950
1846	247,860	16, 564	63, 905	91,037	419,366	18,836,412
1847	380,053	18, 489	87, 329	65, 334	551,205	32,890,938
1848	253, 325	19, 376	90, 411	68, 529	431,641	21, 148, 421
1849	229, 983	22, 196	119, 201	63, 064	484,444	19, 308, 595
1850	205, 457	38,071	133, 473	84 780	461,781	20, 218, 188
1851	229, 526	48,773	146, 204	33, 121	457,624	16,487,652
1852	246, 362	65, 208	182, 434	82,772	576,772	22,564,256
1853	219,868	68, 401	227,631	97,958	613,858	30, 034, 571
1854	115, 468	18, 457	72,975	33,755	240,655	18,482,377
1855	219, 111	15, 169	124,004		302, 125	23, 163, 681
1856	233, 200	4,573	222,542	15,070	475,385	29,098,973
1857	209, 727	4,097	104, 322		263, 141	14, 043, 581
1858	332, 174	8,051	172,674		454,831	19, 632, 087
1859	208, 854	8,970	93, 345		250,872	9, 970, 409
1860	438, 076	29, 915	249,069		710,138	29, 027, 837
1861	744, 484	10,571	277,679	21,561	1,054,295	42, 200, 199
1862	881, 350	2,174	276, 237	17,538	1,177,299	50, 160, 517

Statement of the tonngae and value of merchandise going to other States by way of Buffalo and Oswego, in each year, from 1836 to 1862, both inclusive.

Years.	Value.	Buffalo.	Oswego.	Total.	Value.
74	Per lb.	Tons.	Tons.	Tons.	1. S-3V
1836	\$0 124	30,874	8,019	38,893	\$9,723,250
1837	121	22, 230	3,061	25, 291	6, 322, 750
1838	121	32,087	2,542	34,629	8, 657, 250
1839	15	29,699	4,498	34, 197	10, 259, 100
1840	16	18,863	3, 192	22,050	7,057,600
1841	18	25, 551	5,489	31,040	11, 174, 400
1842	15	20,525	3,538	24,063	7, 218, 900
1843	171	32,798	4,537	37, 335	13, 067, 250
1844	174	32,767	9,648	42,415	14, 485, 250
1845	171	37,713	11,905	49,618	17, 366, 300
1846	174	44, 487	18,540	58, 330	20, 415, 506
1847	18	57, 290	18,843	75,830	27, 298, 800
1848	18	64, 428	20,444	84,872	30, 553, 920
1849	18	68,020	20, 287	88, 315	31, 793, 400
1850	18	79, 405	35,091	144, 496	41, 218, 560
1851	18	99,918	74,981	174,899	62, 963, 640
1852	18	143,787	76,012	219,799	79, 127, 640
1853	18	163, 192	98,560	261,752	94, 230, 720
1854	18	167,550	64, 329	231,879	83, 476, 440
1855	18	145,530	74,936	220, 466	79, 367, 760
1856	18	114,696	68,817	183,513	66, 064, 680
1857	18	74,733	43, 393	118, 126	42, 525, 360
1858	18	47, 350	29,540	76,890	27, 680, 400
1859	18	72,767	26, 109	98,876	35, 595, 360
1860	18	72,030	47,652	119,682	43, 085, 520
1861	18	35,278	17, 184	52, 462	18, 886, 320
1862	18	52,945	18,094	71,039	25, 574, 040

Statement of the estimated value of property coming from, and merchandise going to, other States than New York, by way of Buffalo, Black Rock, Tonawanda, and Oswego, from 1836 to 1862, both inclusive.

Years.	Products coming from.	Merchandise going to.	Total.
1836	\$5,493,816	\$9,723,250	\$15, 217, 066
837		6, 322, 750	11, 136, 376
1838		8,657,250	15, 026, 895
1839	7, 258, 968	10, 259, 100	17, 518, 068
1840	7,877,358	7,057,600	14, 934, 958
1841	11,889,273	11, 174, 400	23, 063, 673
1842	9, 215, 808	7,218,900	16, 434, 708
1843	11, 937, 943	13, 067, 250	25, 005, 193
	15, 875, 558	14, 844, 250	27, 720, 808
1844		17, 366, 300	31, 520, 539
845	14, 162, 239	20, 415, 500	40, 887, 439
846	20, 471, 939		
1847	32, 666, 324	27, 298, 800	59, 965, 124
848	23, 245, 353	30, 553, 920	53,799,273
849	26, 713, 796	31, 793, 400	58, 507, 196
850, Tonawanda included	25, 539, 605	41, 272, 491	66, 812, 096
851	27,007,142	63, 659, 440	90, 666, 582
1852	37,041,380	79, 127, 640	116, 169, 020
253	42, 367, 564	94, 230, 720	136, 589, 284
854	39, 346, 283	83, 476, 440	122, 822, 723
855	43, 555, 243	79, 879, 680	123, 434, 923
856	38,043,813	66,064,680	104, 108, 493
857	26, 466, 121	42, 525, 360	68, 991, 481
858	36, 182, 405	29, 891, 063	66, 073, 468
1859	24, 428, 412	35, 595, 360	60, 023, 772
860	42,915,046	45, 154, 114	98, 069, 160
1861	49, 405, 375	18, 886, 320	68, 291, 695
1862	72, 131, 136	25, 574, 040	97, 705, 176

## COMMERCE OF THE PACIFIC COAST.

Since the era of gold discovery in the mountain ranges which girdle the whole Pacific coast, the United States, England, and Russia have made nearly equal advances in colonization in that quarter of the world. England is firmly planted in the Australian colonies and British Columbia; Russia has annexed Manchooria and the island of Saghalien, which, with her possessions in America, almost constitute a dominion of the North Pacific ocean; California and Oregon, with the settlements converging to the harbors of San Francisco and Puget's sound, have become an important section of the United States; and France probably finds a motive for Mexican intervention in the circumstance that her power in the New Pacific World is limited to the Society Islands and the recent successful crusade in Cochin China.

A review of these results of Pacific colonization will be the best illustration of existing and prospective commerce.

#### THE AUSTRALIAN COLONIES OF ENGLAND.

The statistics of the Australian colony of Victoria and of the State of Cali-

fornia present many analogies.

At the commencement of the golden era in Victoria, 1851, the wool-created colony of Victoria contained 77,345 people who owned 6,032,783 sheep, 378,806 head of cattle, and 21,219 horses, and the wool-created city of Melbourne had a population of 25,000 souls. In eleven years the population of Victoria, under the gold impulse, has increased to 550,000; the average exports and imports are, respectively, £12,000,000, and the population of the city and suburbs of Melbourne has increased to 138,000.

In 1849 California had a population not exceeding 75,000; its industry and production were pastoral, the chief export being the hides of cattle; and San Francisco was an insignificant seaport. In 1864 the population of California and its colony, the Territory of Nevada, cannot be less than 500,000, and the average exports and imports are, respectively, \$55,000,000 per annum.

The average annual exports of treasure from Victoria and California since 1854 have closely approximated, being nearly \$40,000,000 annually. In both countries the aggregates have decreased with the diversion of labor to agriculture and manufactures. In Victoria, the culminating point was in 1856, when the export of gold was 2,985,696 ounces, of the value of £12,000,000; and the least export has been during 1863, viz., 1,634,377 ounces, of the value of £6,537,508. In California, the greatest annual export was, in 1853, \$57,331,034, while, for the last two years, California alone has not exported more than \$35,000,000 per annum.

The entire gold product of Australia and New Zealand stood, in 1862, as follows:

Victoria	1,711,508	ounces.
New South Wales	584,519	ounces.
New Zealand	445,902	ounces.

2,741,929 ounces.

Or nearly as much as Victoria alone produced in 1856. So with California. When credited with the production of Nevada, Oregon and British Columbia, which the course of trade brings to California for exportation to different parts

of the world, the aggregate retains and even exceeds the amount recorded in 1853; but California, like Victoria, has found more productive industries than

gold mining.

Both countries now produce an immense number of consumable articles which they used formerly to import and pay for with gold. A summary of these new sources of value in Victoria is compiled from the London Statistical Journal, for December, 1868. In 1856, the year of the greatest production of gold, the colony had only 115,135 acres in cultivation; in 1862, 540,000 acres. The crop of wheat has increased from 1,148,011 bushels in 1856, to 4,152,000 bushels in 1862, with a saving of 60 per cent. in price. Oats increased from 614,679 to 2,633,692 bushels, with a gain in reduction of price of £400,000. The same comparison extends to all agricultural productions—the local supply now effecting a saving of gold export in lesser articles of £5,000,000.

Great changes may be anticipated from the success of the vine and tobacco cultivation. In 1843 four acres were planted by a Swiss vigneron, near Geelong. In 1862 there were 1,464 acres planted with 3,818,335 vines, (one-half only in bearing condition,) from which 16,972 cwt. of grapes were sold, and 47,568 gallons of wine manufactured. In 1862, 220 acres were planted to

tobacco, yielding 2,552 cwt.

The successful manufactures of Victoria are machinery for mines, carriages, refined sugar, spirits, weollens, ale, furniture, soap, candles, biscuits, brick and tiles, cement and lime, leather, hats and caps, iron rolling mills, jewelry, paper bags and pasteboard boxes for tradesmen.

The bank circulation for 1862 was £1,605,253.

In railroad construction Victoria is in advance of California. At the close of 1863 the colony had 351 miles of railroad in operation, constructed by the government, and yielding a revenue of £433,615, against £297,949 in 1862, when the total mileage in operation was only 220 miles. Mr. H. S. Chapman, of Melbourne, one year ago, (in January, 1863,) wrote as follows on this interesting subject (see London Statistical Journal for 1863, p. 439:) "In the early part of 1862, the railway from Geelong to Ballarat was opened, but the double line not being completed, the department was not in a condition to carry goods to any extent. In October the Melbourne and Murray River line was opened to Sandhurst. The distance of the two is, in round numbers, 200 miles. There are also short railways having their termini at, and radiating from, Melbourne, constructed by four distinct companies. These connect the surrounding suburbs with the city, and are of great convenience to the inhabitants; but it is only one of these (that which connects Hudson's Bay with the metropolis) which is of great importance. The total extent of railways in operation is 221 miles, [351 in January, 1864.] The government has in its hands the means of completing the northern line to Echuca, on the banks of the Murray, where the Camtaspe empties itself into that river. The embouchure of the Goulbourne is only a little to the eastward. This line measures a trifle over fifty miles. These government lines have been constructed with borrowed money, as everybody knows, £7,000,000 raised in England, £1,000,000 raised in Victoria. There was a premium of £385,000, and they would have been constructed for some hundreds of thousands less than the original estimates had not the government obtained the sanction of the legislature to purchase the Geelong line of a private company, which, with the repairs to that line, will require about £300,000, or perhaps £400,000 in addition. This the government have authority to raise in the colony. Upon these loans the annual charge is half a million. It is not easy as yet to ascertain what the net revenue from the government lines will be. They are scarcely yet in a condition to do all the work they will ultimately be capable of, and undoubtedly the revenue will be greatly increased when the line is open to Echuca. The revenue at present is £45,000 per month, and is increasing. This will give £540,000 for the year. The working expenses

are roughly estimated at one-half, but I am informed they will not exceed, and will probably be kept below, £250,000. In round numbers we may call the net revenue £300,000 for the year 1863, [it was £433,615.] to go towards the payment of the interest which is charged on the consolidated revenue. This net revenue is 33 per cent. on the capital. I do not think there can be any reasonable doubt that in two or three years the net revenue will be worked up to the interest, or 6 per cent. I am not, however, upon conjecture or speculation, but upon the facts as I find them: and the fact with which I am now to deal is a deficiency of £200,000, which the people of the colony now have to meet by taxation. Not that we should care to be taxed less if that were not the case, but we should have £200,000 more to expend on other improvements. Is that £200,000 a loss to the community? I answer it is not. It is in the nature of a guarantee premium, to secure the great economical gain to the country from the cheapness of transport generated by these railways. There is no country in the world which has illustrated, and still illustrates, this so perfectly as Victoria. Our existence has been of such short duration, and our progress so rapid, that everything may be said to have passed before the eyes of everybody. We can all recollect our roads in the condition in which General Wade is said to have found them in the north of England. In 1852-'53 we saw these roads "before they were made"-1854-'58 was the era of macadamization-1859-'62 that of railways. The revolution from the second to the third period was not so marked as from the first to the second. More than £100 per ton has been paid for the carriage of goods to Bendigo; £40 and £50 was not uncommon. As MacAdam moved, Melbourne cartage got down to £18, then to £12, and latterly to £5 and £6 per ton. We now think that enormous. The government charge is 50s. to Sandhurst, and 42s. to Ballarat, and in proportion for shorter distances, and the public are actually agitating for reduced rates. At present I have not data to make an exact calculation of the gain, but I can make one which will certainly be on the safe side. At present, as I have said, the goods traffic is in its infancy; but if we take the twelve months at no more than the first two months, the number of tons conveyed will be, on the Sandhurst line, 128,073; on the Ballarat line, 72,840; on both, 200,913. Deducting one-third for short distances, it is equal to 134,000 tons carried the whole way. In 1860 the winter rate of cartage to Bendigo was £6 10s., the summer rate £5 10s.; mean rate £6 per ton, and even then the carriers had the benefit of twenty miles of railway. In 1861 the winter rate was £5, the summer rate £4.5s.; mean, £4 12s. 6d. This makes an average saving of £2 6s. 6d. per ton, or a total of £311,550 gain, against the revenue deficiency of £200,000. In this calculation nothing is allowed for the superior condition of the goods when delivered, nothing for time, nothing for the absence of depredation, which used to be considerable; nothing for passengers and their convenience; and nothing for the revenue of the Echuca line, when completed, for the £200,000 is charged on the whole. Taking all these into account, I do not doubt that the economical advantage distributed over the whole country is at least half a million, secured at a guarantee or insurance charge of £200,000; and as the charge is not subject to increase, but may be reduced as the traffic extends, the advantage must be deemed progressive. The Echuca line will add a fourth to the length of the lines, and ought, consequently, to add onefourth to the net revenue; that will reduce the deficiency to £125,000; but it will also add one-fourth to the sum of economical advantages. Englishmen, who only know the change from our four-horse coaches, so splendidly appointed and worked, to the railway, can form no conception of the revolution which we have experienced. It is a change from misery to comfort—a sudden jump from the eighteenth to the middle of the nineteenth century."

This extract is given without paraphrase, on account of its suggestiveness in regard to the indispensable internal improvements of mining districts. California has recently opened fifty miles of railroad eastward of San Francisco.

The leading statistics of the Australian group of English colonies are as follows:

Colonies, &c.	Area, square	Population ac-	Revenue raised	COMMERCE IN 1860.	
	miles.	cording to latest return.	in the colony in 1960.	Value of imports.	Value of exports.  £5,072,000 12,963,000 710,000 1,784,000 89,000 1,025,000
New South Wales Victoria Queensland South Australia Western Australia Tasmania New Zealund	323, 437 86, 831 678, 000 383, 328 978, 000 26, 215 106, 259	365, 635 548, 944 56, 000 126, 830 15, 691 90, 211 155, 070	£ 1, 309, 000 3, 039, 000 179, 000 439, 000 61, 000 268, 000 465, 000	£7,519,000 15,094,000 742,000 1,640,000 1,006,000 1,548,000	12, 963, 000 710, 000 1, 784, 000 89, 000
	2, 582, 070	1, 358, 381	5,760,000	27,718,000	22, 232, 000

The revenue of Victoria since 1860 has been nearly £3,000,000. In 1863 it was reduced to £2,722,299, but will reach the former point in 1864. The sources of the revenue for the year ending with December, 1863, are thus presented by the Melbourne Argus of January 25, 1864:

I.—Customs:	Rate of impost.	Revenue for 1836.
Spirits	10s. per gallon.	£494,045
Wine	3s. per gallon.	44,073
Beer	6d. per gallon.	53,537
Tobacco, manufactured	2s. per pound.	120,320
Tobacco, unmanufactured	1s. per pound.	120,320
Cigars	5s. per pound.	10,118
Tea	6d. per pound.	92,780
Sugar	6s. per cwt.	118,736
Coffee	2d. per pound.	11,918
Opium	10s. per pound.	23,644
Rice	2s. per cwt.	15,560
Dried fruits	10s. per cwt.	16,633
Hops	2d. per pound.	5,525
Malt	6d. per bushel.	8,445
Sheepwash tobacco	3d. per pound.	5,218
Registration fees, ("unit of entry")	2d. per package	. 28,026
Total from customs		1,048,586
Spirits distilled in Victoria		. £6,181
Publicans' licenses	• • • • • • • • • • • • • • • • • • • •	54.625
Spirit merchants' licenses		14,128
Auctioneers' licenses.	***********	4,350
Brewers		978
All other licenses		9,144
	•••••••	
Total from excise	• • • • • • • • • • • • • • • • • • • •	89,403
III.—Income from public works:		
Railways	•••••	. £433,615
Electric telegraph	• • • • • • • • • • • • • • • • • • • •	24,222
Total from public works	••••••	
•		

IV.—Territorial: Sales and leases of lands, miners' rights, &c Export duty on gold, 1s. 6d. per oz	£750,603 121,508
Total territorial	872,111
V.—Post office	£117,664
Tonnage, pilotage, &c	£20,453
Fees, fines, and forfeitures, &c	£116,240
Grand total	£2,722,299

The expenditure of Victoria covers the whole field of what in the United States is divided into national and state expenditure. Taxation of the entire population of the United States in equal measure would produce a revenue of \$800,000,000.

Hittell, in his Resources of California, (1862,) estimates that the inhabitants of Nevada, Oregon, Washington, the western part of New Mexico, (now organized as Arizona,) the northwestern part of Mexico, British Columbia, Vancouver's island, and the Hawaiian islands, are an aggregate population of 1,700,000, and destined to an identity of commercial interests.

San Francisco and California hold the same relation to this Pacific population which Melbourne and Victoria bear to the 1,400,000 inhabitants of the Australian group of English colonies. Omitting further comparative statements, it is now proposed to exhibit the present nature and relations of the Pacific trade which concentrates at the city of San Francisco. This will be done chiefly by compilations from the San Francisco Mercantile Gazette, showing the transactions and situation of 1863.

#### THE TRADE OF SAN FRANCISCO.

The following table shows the destination and value of exports from San Francisco, exclusive of the precious metals, during the past three years:

To—	1861.	1862.	1863.
New York	\$1,605,034	\$2, 245, 633	\$2,736,435
Boston.	98,345	1, 192, 489	1, 505, 690
Great Britain	2,838,004	1, 355, 217	1,697,822
Australia	1,056,401	332, 335	487,685
British Columbia	1, 177, 152	2, 195, 903	1,746,801
Mexico	1,094,930	1,014,639	1,819,652
Peru	163,264	271, 251	216, 206
China	711,841	722, 229	1, 246, 254
Hawaiian islands	288,877	293, 370	357, 369
Japan	15,577	21,598	43, 901
Other countries	838, 647	920, 630	920, 584
	9,888,072	10, 565, 294	12, 877, 399

This table includes the productions of Oregon, British Columbia, and northern Mexico, as well as of California.

The Gazette adds the following comparative statement of the value of different articles of California produce exported during the past three years:

Articles.	1861.	1862.	1863.
Barley Beans Bones Bran Bread Copper ore Fish Flour Glue Hay Hides Horns Leather Lime Lumber Mustard seed Oats Potatoes Quicksilver Skins	\$361, 452 10, 214 1, 984 1, 131 64, 892 135, 240 21, 828 858, 425 7, 320 4, 683 444, 995 2, 350 3, 605 357 69, 931 1, 857 156, 879 23, 016 1, 079, 850 36, 652	\$131, 282 40, 599 5, 400 3, 061 69, 805 370, 200 21, 868 688, 234 1, 240 10, 998 947, 253 2, 484 11, 040 968 149, 560 2, 417 72, 045 12, 936 1, 138, 961 25, 011	\$65, 044 11, 608 171 1, 871 65, 290 719, 300 11, 285 767, 279 930 11, 914 924, 567 3, 779 2, 463 123, 084 11, 230 130, 602 21, 828 1, 073, 078 56, 338
Silver ores. Tallow.* Wheat Wine Wool Sundries of manufacture. Sundries of agriculture.	211, 345 35, 658 2, 702, 434 8, 000 519, 577 27, 145 4, 936	34,740 37,740 1,372,572 25,836 1,009,194 23,843 2,496	118, 109 80, 170 1, 754, 116 80, 141 1, 119, 098 45, 565 7, 637
	6, 795, 758	6, 211, 788	7, 208, 289

## The destinations of these California products were classified as follows:

То—	1861.	1862.	1863.	
10-	1001.	1002.	1000.	
New York and Boston	\$1,283,381	\$2,465,831	\$2,879,897	
Great Britain		1,296,889	1,620,812	
Australia		287,975	398, 018	
China	566,860	589,907	1,010,931	
Mexico	453, 953	539, 927	560, 312	
Peru		216, 276	162, 094	
Hawaiian Islands		47, 135	66,930	
British Columbia	71,315	373,611	260,746	
Other islands	396, 283	394, 237	249, 449	
Total	6,795,758	6, 211, 788	7, 208, 289	

Including exports of treasure, the entire exports of California productions during three years, may be classified as follows:

•	1861.	1862.	1863.
Products of the mine. Products of agriculture Products of the herd. Products of the forest Products of the sea Products of manufacture Products of the vine.	3, 265, 471 1, 041, 217 69, 931 21, 828 962, 876	\$44, 105, 662 1, 645, 350 2, 027, 082 149, 560 21, 888 798, 191 25, 836 48, 773, 549	\$47, 062, 398 2,0 13, 975 2, 182, 155 134, 068 11, 265 873, 854 81, 456

The following table shows the value and destination of treasure shipments from San Francisco during the years 1954 to 1863:

Years.	To eastern ports.	To England.	To China.	To Pana- ma.	To other countries.	Total.
1854 1855	\$46, 533, 166 38, 730, 564	\$3,781,080 5,182,156	\$965,887 889,675	\$204,592	\$560,908 128,129	\$52, 045, 633 45, 161, 731
1856	39, 895, 294	8,666,289	1, 308, 852	230, 207 258, 268	573,732	50, 697, 434
1857	35, 531, 778	9, 347, 743	2,993,264	410, 929	692, 978	48, 976, 697
1858	35, 891, 236	9, 265, 739	1,916,007	299, 265	175,779	47, 548, 026
1859	40, 146, 437	3,910,930	3, 100,756	279,949	202, 390	47, 640, 462
1860	35, 719, 296	2,672,936	3,374,680	300, 819	258, 185	42, 325, 916
1861	32, 628, 011	4,061,779	3,541,279	349,769	95, 920	40, 676, 758
1862	26, 194, 035	12,950,140	2,660,754	434,508	322, 324	42, 561, 761
1863	10, 389, 330	28, 467, 256	4,206,370	2, 503, 296	505,667	46, 071, 920
Total	341, 659, 147	88, 306, 054	24, 957, 524	5, 267, 602	3, 516, 010	463, 706, 338

The imports, answering to these exports, are, in some measure, indicated by the following statement of the tonnage which arrived at San Francisco during the year 1863:

From—	No. of vessels.	Tons.
Domestic Atlantic ports	102	114,96
Domestic Pacific ports	1,414	253, 01
Great Britain		22, 82
Panama, New Granada		84, 87
France		5,62
Hamburg	11	4, 11
Australia	28	13, 96
China		32, 88
Japan	3	89
Manilla	7	5,75
Calcutta	3	_ 1,33
Java		98.
Malaga	1 1	29
Rio Janeiro	4	1,03
Chili	4	1,75
Peru	11	2,97
Mexican ports	66.1	20, 84

#### STATEMENT—Continued.

From—	No. of vessels.	Tons.
West Indies British Columbia Hawaiian Islands Society Islands Central America Russian Possessions, northwest coast. Russian Possessions, Asia. Whaling voyages	13 13 9 4	900 46, 605 6, 520 2, 176 3, 771 3, 146 737 4, 504
Total arrivals	1,899	641, 393

### Recapitulation for the year 1863.

	No. of vessels.	Tons.
American vessels arrived from domestic ports  American vessels arrived from foreign ports  American vessels arrived from whaling voyages  Foreign vessels arrived from whaling voyages  Foreign vessels arrived from foreign ports	1,516 238 12 1 132	367, 980 214, 655 4, 304 200 54, 254
Total	1,899	641, <b>39</b> 3

By a return from the Register's office of the Treasury Department, the total value of foreign imports at San Francisco for the year ending June 30, 1863, was as follows: In American vessels, \$7,348,969; in foreign vessels, \$3,333,173; total, \$10,682,142. To which add for the third quarter of 1863, in American vessels, \$1,937,441; in foreign vessels, \$750,956; making an aggregate for the period of fifteen months ending September 30, 1863, of \$13,370,539. During the same period of fifteen months the value of foreign imports to Oregon are stated on the same authority at \$79,764. There is no return from Puget's Sound district, though estimated to import at least \$100,000 yearly. These custom-house returns indicate an annual importation on the Pacific coast of \$10,826,957.

The present tendencies of the Pacific trade in regard to different countries are worthy of observation.

To New York and Boston the leading articles of export are hides, wool, and even copper:

Articles.	1860.	1861.	1862.	. 1863.
Copper ore sks. Hides No. Wool bales.	200, 116	11, 155 177, 998 14, 791	72, 938 315, 751 21, 911	109, 470 308, 189 16, 078

The exportation of wheat, which in 1860 was 203,528 bags, fell to 19,268 in 1861, and is not reported for the last two years.

To Great Britain the exports from California chiefly consist of wheat and flour, as follows:

Articles.	1860.	1861.	1862.	1863.
Flour barrels. Wheat bags.	36, 375	70, 945	8, 582	12, 200
	458, 495	1, 0 <b>22</b> , 664	590, 485	844, 022

To the Sandwich Islands and Mexico, lumber is the leading export, amounting in 1863 to 772,794 feet for the Sandwich Islands, and 1,152,380 feet for Mexico.

The export of lumber to Peru reached 1,936,156 feet in 1862, and 890,009 feet in 1863.

China is also a considerable market for the lumber of the Pacific coast, receiving 2,659,190 feet in 1862, and 2,709,733 feet in 1863. The San Francisco Mercantile Gazette of January 12 remarks: "The shipments of California products to China during the year just ended have been very much greater than ever before. Flour, wheat, lumber, bacon, butter, cheese, lard, wine, vegetables, &c., have all been sent forward in quantities that indicate a rapidly expanding market. The people of that country who have lived among us these many years, much to the disgust of certain political classes, and in spite of the most determined efforts to drive them away, have done us a great service in teaching their countrymen at home the use and value of our products, and in overcoming their ancient prejudices against 'barbarian' diet. The trade requires judicious management, and is in good hands. We regard its present aspect as perhaps the most important feature in our outward commerce which the past year has developed. Its progress may be comparatively slow for some time to come, and may yet undergo many vicissitudes; but once fairly inaugurated, as indeed it now seems to be, the wants of a population almost illimitable give assurance of a market for any surplus we may have to spare at prices reasonably remunerative."

To Australia and New Zealand the leading export is lumber; the former

demand for breadstuffs being much below the exportation of 1861.

The East Indies send to California coffee, sugar, rice, hemp, spices, &c., but

take little in return except gold and silver.

The exports of California produce to British Columbia, New Granada, Chili, Society Islands, Manilla, Japan, France, Cape of Good Hope, Central America, and Russian possessions, are reported by the San Francisco Gazette as follows:

Articles.	1860.	1861.	1862.	1863.
Barley bags	99, 243	92, 814	39,034	27,303
Beansbags		4,883	8,980	3,074
Brantons		25		
Bran bags	5,806	1,098	5,762	3,709
Buckwheatbags		36	75	
Bread bbls		58	28	50
Breadcwt	. 1,753	1,513	1,044	2,327
Breadpackages			289	96
Brooms dozen		362	- 518	
Flourbbls		21,480	59, 170	57,634
Furspackages				
Haybales.		3,002	5,524	6, 103
Hide cuttings packages.		10		
HornsNo.	1000000000	5,400		
Leather packages		68	77	67
Lumber—boards feet	1,740,575	1,531,505	2,897,752	940, 899
boards bundles and packages.		3,542	704 -	366
shinglesNo.	. 490,000	216,000	450,000°	1

#### STATEMENT—Continued.

Articles.		1860.	1861.	1862.	1863.
	bundles.		5 000	400	,
pickets		2,000	5,000 400	1,000	
Lime	bbls.	220		30	310
Oats		3, 198	2,504	7,783	6,48
Potatoes		6, 351 1, 497	4, 935 2, 392	4,514 2,240	6, 225 705
Salmon		236	73	235	37
Salmon			17	6	60
Tallow	packages.	1,484	327	423	25
Wheat	bags.	37, 357	4, 184	5, 118	27,297
Wool	bales.		3	546	

The table of treasure shipments indicates a great change of destination since 1861. Then the shipments to our Atlantic cities reached \$32,628,011, while during 1863 they amounted to only \$10,389,330. The treasure shipments to England increased from \$4,061,779 in 1861 to \$28,467,256 in 1863.

The attention to wool-growing on the Pacific coast during the last five or six years has resulted in a very rapid increase of the crop in California. In 1857 the whole product of the State was only 1,000,000 pounds; now it is estimated at 7,600,000 pounds. The shipments of wool from San Francisco have been as follows for the last four years:

	1860.	1861.	1862.	1863.
To New York	Bales: 11, 767	Bales. 13, 244 1, 547 1, 193	Bales. 13, 127 8, 784 78 626	Bales. 9,862 6,216 319
Total	12,082	15, 987	22, 615	16, 398

The export of the important article of quicksilver for the past six years is shown by the following table:

.To—	1858.	1859.	1860.	1861.	1862.	1863.
New York and Boston	3,559	250	400	600	2,265	95
Great Britain	12,901	103	3,886	2,500 12,061	1,500	1,062 11,590
China	4, 132	1,068	2,715	13,788	8,725	8,889
Peru	2,000	571	750	2,804	3, 439	3, 376
Chili	1,364	930	1,040	2,059 110	1,746	500
Japan				50	25	40
Australia		325	100	1,050	800	300
Panama		133	135	57	424	120
Victoria, V. I	186	19	327	116	5	42
Total flasks	24, 142	3, 399	9,348	35, 995	33,749	26, 014

The manufactures of California are unexpectedly prosperous, and materially reduce importations. Cordage, eement, blankets, white and colored flannels, cloths and cassimeres, gunpowder, leather, malt liquors, tar, rosin, turpentine, paper, soap, wine, are now manufactured with a degree of success which will probably control the home market.

The California supply of coal, chiefly from the Mount Diablo mines, is on the increase, reaching 37,000 tons in 1863; but the demand is so great as to warrant shipments from Vancouver island, Bellingham Bay, and Chili, and even from England and Australia. The monthly consumption from the Diable mines during the last three months of 1863 was fully 6,000 tons per month.

The product of gold and silver on the Pacific coast is estimated at \$55,000,000 for 1863, of which fully \$7,000,000 was received from British Columbia. The total coinage at the San Francisco mint during the year 1863 was \$20,251,417 97.

It is contended by the commercial journals of San Francisco that the currency of California, which is mostly coin, is more abundant in proportion to population and wealth than that of the Atlantic States. The Mercantile Gazette of February 12, 1864, represents the amount in circulation on the Pacific coast as \$25,000,000; that the population of California with adjoining State (of Oregon) and Territories is 600,000, which gives forty-one dollars and sixty-six cents per capita. The total value of real and personal property on the Pacific coast is estimated by the Gazette to be \$340,000,000, of which \$25,000,000 is about seven per cent. The currency of the loyal States east of the mountains, notwithstanding its expansion to meet the exigencies of the nation, is below those ratios to population and property. The population of the loyal States and of the insurrectionary districts which are held by the army (in June, 1864) is 24,000,000. If the currency was at the California standard—\$41 per capita—, its aggregate would be \$984,000,000, and a proportion of 7 per cent. upon the total valuation of property would give an equal aggregate.

### VANCOUVER'S ISLAND AND BRITISH COLUMBIA.

Except Australia, British Columbia, and the islands adjacent to its coast, would be the only important colonial occupation of the Pacific coast by Great Britain—Mauritius, Hong Kong, and Labuan having their chief significance in the convenience of the mercantile marine. The station of England on the northwest coast of North America will prove of great value in the future struggle for commercial, if not political, ascendancy in the Orient.

The island of Vancouver, with its excellent harborage in Puget's sound, is in the latitude, and is not unlike the climate, of Ireland. The coldest weather of the year is in December; but little snow falls, disappearing usually in a few days. The frosts which precede and follow penetrate the soil but a few inches, and the lakes are covered with ice sufficiently strong to bear the skater only during a few weeks. The climate is mild and equable, but warmer in summer than in England. Cattle, horses, sheep, and hogs are seldom housed. Probably not more than half the surface of the island is adapted to agriculture, but the soil is of excellent quality, and all other conditious favorable. Wheat. oats. barley, hay, and vegetables are produced, and the almost evergreen turf is well suited to grazing. The section of country now in course of agricultural settlement is within sixty miles of Victoria, the leading town of the island, and is known as the district of Cowichan. The conditions on which land may be taken there, as elsewhere in Vancouver's island, are easy. A single man may pre-empt one hundred and fifty acres; a married man, with his wife in the colony, two hundred acres; and for each child under ten years of age, ten acres additional. The government price for the land is one dollar an acre. If unsurveyed land be pre-empted, the settler has to pay for it when surveyed. If

surveyed, he has three years in which to pay the purchase money. Another condition makes it incumbent on the pre-emptor to occupy and improve his claim. When two dollars an acre is expended in improvements the government will make a title; but not so unless the settler has resided on his claim two

years.

Vancouver's island is the naval station of England in the North Pacific. The harbor of Esquimalt, three miles from Victoria, and near the Straits of San Juan, is a magnificent haven, fit to shelter a whole navy in safety. The forests of the island are an inexhaustible resource for ship-building, while the coal mines at Nanaimo, sixty miles from Victoria, on the sheltered navigation of the Gulf of Georgia, are of the best possible quality—bituminous and extensive. The seams now worked at Nanaimo are, respectively, three feet ten inches, five feet, and two feet five inches, and have been traced to the northwest extremity of the island, where Johnson's straits furnish excellent land-locked harbors. Up to 1858 the Hudson Bay Company had, in nine years, taken 63,000 tons; but, during 1863, 22,000 tons have been exported to San Francisco alone, where it found a remunerative sale, though the price at the pit-mouth is six dollars per Behind Nanaimo a remarkable natural cleft known as Albeoni canal leads into Barclay sound, where a London firm have established saw-mills, which, during nine months of 1863, cut and exported 15,000,000 superficial feet of the finest planking from the Douglas and other pines. These details of the coal and lumber trade indicate the great advantages of Vancouver for the construction, repair, and coaling of vessels.

Northward of Puget's sound the coast of British Columbia is so broken with fiords or inlets, and sheltered by islands, as to present the greatest possible advantages for fisheries and a coasting trade. The salmon, herring, and other

fisheries of this region will equal those of Norway.

British Columbia, in respect to capacity for agriculture, may be compared with Scotland, while its mineral resources are destined to a development fully

equal to the gold product of the colony of Victoria.

The progress of the colony of British Columbia, during the first four years of its organization, will be illustrated by a statement of revenue which is raised almost entirely by customs duties levied at New Westminster, or the mouth of Frazer river, and by a mining license of twenty shillings per year for each man. During the first year of the existence of British Columbia as a colony—that is, to the 31st of December, 1859—the customs duties amounted to £18,464, the receipts from other sources being quite trifling. In the succeeding year, 1860, the customs receipts reached £30,416, and those from other sources, such as land sales, port and harbor duties, licenses, &c., nearly £23,000 more. In 1861 the receipts from customs were £41,177; from other sources, £38,192. In 1862 the customs receipts were estimated by Governor Douglas at €58,980; other sources, £47,050. One-third of the gross revenue is devoted to the construction of roads and bridges, which are objects of first necessity in a rugged mining country. By the improvement of the roads from the mouth of the Frazer river to stations three hundred miles distant, the cost of transport has been reduced to about twenty shillings a ton, which is 300 per cent. less than in 1860.

The land system of British Columbia is identical with that of Vancouver's island, the price of land being 4s. 2d. per acre on easy terms of payment.

The mineral wealth of British Columbia, especially the interior district called Cariboo, which parts the waters of the Columbia, Frazer, Saskatchewan, Athabasca, and Peace rivers to every point of the compass, has lately been attested by papers read at the London Geographical Society, and is confirmed by the returns of treasure exports at New Westminster and Victoria.

Allen Francis, esq., United States consul at Victoria, Vancouver's island, states that the export of gold from that port during the year 1863, as obtained from reliable sources, amounted to \$2,935,170 16, and he computes that we

equal amount has been taken away in private hands, or about \$6,000,000 as the total export.

Mr. Francis communicates the following statistical tables:

Table of imports to Victoria, Vancouver's Island, for the years 1861, 1862, and 1863.

	1861.	1862.	1863.
From San Francisco	\$1,288,359 228,350 216,603	\$2, 345, 066 224, 793 75, 370	\$1,880,117 242,781 108,603
Total	1,733,212	2, 645, 229	2, 230, 501
From England. From Sandwich Islands. From British Columbia. From China From Melbourne From Valparaiso	54, 382 31, 454	694, 278 112, 108 32, 424 22, 268 32, 170 17, 000	1, 432, 521 113, 486 65, 870 45, 434
Total	601,877	910, 248	1,657,311

# Statement of exports from the port of Victoria, Vancouver's Island, during the six months ending December 31, 1863.

To what place.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
San Francisco		\$25, 015 6, 804 1, 727 349	\$16,650 6,187 637	\$28, 112 8, 863 4, 208	\$23, 217 3, 988 2, 586	\$25, 456 10, 412 361	\$139, 123 42, 024 10, 464 349
Total	27,588	33, 895	23, 474	40, 983	29, 791	36, 229	191, 960

# Statement of the export of gold from Victoria, Vancouver's Island, from 1858 to 1863, inclusive.

1858. Wells, Fargo & Co	\$337,765	17
1859. Wells, Fargo & Co	823,488	
1860. Wells, Fargo & Co	1,298,466	00.
1861. Wells, Fargo & Co	1,340,395	72
1862. Wells, Fargo & Co	1,573,096	16
1863. Wells, Fargo & Co	1,373,443	39
McDonald & Co. from 1858 to 31st December, 1861	1,207,656	00
1862. Not included in Wells, Fargo & Co.'s statement	335,379	00
1863. Bank of British North America	585,617	85
1863. Bank of British Columbia	824,876	92
Hudson Bay Company and others from 1858 to 1863, in-	-	
clusive, approximate	500,000	00

10,200,184 64

Shipment of gold 1863	by express	and on freig	ht during the year	\$2,935,170	16
Same for the year	1862	• • • • • • • • • • • • • • • • • • • •	••••••	\$2,167,183	= 18

Statement of the tonnage of shipping entered and cleared at Victoria, Vancou ver's Island, from 1st July to 31st December, 1863.

Nationality.	Tonnage entered.	No. crew.	Tonnage cleared.	No. crew.
AmericanForeign		2,412 1,516	46,057 47,048	2,344 1,711

#### RUSSIA IN ASIA.

In 1858, before the English and French fleet had reached the Pei Ho, the Russians appropriated the best results of the campaign. In May of that year General Mouravieff concluded a convention at Algoor with the Chinese authorities, which enlarged Siberia almost to the absorption of Manchooria—securing to Russia a region abounding with the elements of commerce. Along the Amoor river, fed by numerous navigable tributaries and capacious enough to admit steam vessels two thousand miles from its mouth, the Russo-Chinese treaty fixed the dividing line of the two empires, only varying from its channel by a line running to the tide-waters of the Pacific at a point which gives to Russia the best harbors on the sea of Japan. The territory thus acquired can hardly be estimated under three hundred thousand square miles, rich in the products of the forest and in mineral wealth. In securing Manchooria, or the best half of the native land of the tribes, whose dynasty is dominant in China, Russia has virtually pushed her frontier to the wall of China.

In the wilderness of Central Asia, west and northwest of China proper,. Russia is constantly making territorial acquisitions. Even Khiva, Kokand and Khorassan are dependencies of the Czar. Indeed, the desert of Gobi on the east, and the Himalayan range and the frontiers of Afghanistan and Persia on the south, are natural boundaries within which Russian influence is paramount. Mongolia, Thibet, Turkestan, are at this moment less members of the Chinese than of the Russian Empire. This portion of Asia, known historically as the birthplace and scene of empire of Genghis Khan, has a considerable capacity for commerce. Stretching from the Suliman range to Siberia, from the Caspian to the sea of Okhotsk, it certainly contains a considerable population, possibly a large one, which wants clothes, weapons, iron instruments—most of the appliances and some of the luxuries of civilization—and can give in exchange hides, horns, goats' wool, camels' hair, tallow, silk, borax, gems, metals, drugs, and all that wealth which is sure to be discovered in very wide tracts of earth. "Englishmen think of the provinces of Central and Northern Asia," observes the London Economist, "as if they were covered with desert, but they comprise every kind of climate, and contain every variety of mineral, while over half their extent fat grapes grow in the open air, and every traveller records the luxurious quality of their fruits."

Upon the question of practical communications with Central Asia, the same authority reaches conclusions which demonstrate the value of the Amoor river and its tributaries. "The true route towards these countries," continues the writer in the Economist, "is through Russia and China, for it is the only one on which we have much help from water communication. By following the

Yangtsee and Hoangho to the utmost limit of navigation, we bring ourselves to points from whence the Chinese merchants have traded with the people east of the Himalayas—points from which traffic in wheeled carriages may begin. In northern Asia, the true access is by the Amoor, a river which, if travellers may be trusted, is navigable for more than two thousand miles, and cleaves into the very heart of that secluded region. The western division, which we call Central Asia, as if Thibet were not more central, is cloven by the Jihon, which flows from Bokhara to the Caspian, and the navigation of which has never been fairly tried. \* \* \* The notion of opening the Amoor has been repeatedly entertained at St. Petersburgh, and if all sovereign rights were fully reserved, and the advantages of such a course to the revenue made quite clear, the government might be disposed to go gradually much further. To enfranchise the great eastern Asiatic rivers by agreement with St. Petersburgh and Pekin should be the line to which our efforts ought to be directed."

Proceeding upon such a commercial policy in 1858, Lord Elgin, who was fully conscious of the advantages gained in the Russian treaty of May, obtained from the Chinese government concessions of free travel through the empire and of a port of Shingking, at a point easily attainable from Shanghae and open to the importation of foreign manufactures. These concessions have been extended to American traders.

Russia has followed the initiative of 1858 with extraordinary vigor. The telegraph already connects St. Petersburgh with Irkoutsk, a distance of 5,000 miles, and will be extended to the Pacific coast during 1865. The colonization of the valley of the Amoor has been undertaken, and already eighty steam vessels are employed in the trade with the Russian possessions of the North Pacific, while the government of St. Petersburgh extends all possible encouragement to the enterprise projected by English and American capitalists to unite the telegraph lines of the United States and British America with the Russo-Siberian line now advancing to a junction across the Behring straits and through Russian America.

#### COMMERCE OF THE SANDWICH ISLANDS.

The Hawaiian islands should not be omitted from the consideration of the great commercial changes which the contact of European and Asiatic civilization is destined to produce. In 1863 the external commerce of the islands had reached an aggregate of \$2,201,345, and its progress is indicated by the following table:

Years.		For'n merchan- dise exported.	Total exports.	Total imports.
1846	\$301, 625	\$62, 325	\$363,750	\$598, 382
	466, 278	204, 546	670,824	1, 156, 483
	480, 526	326, 932	807,459	1, 223, 749
	476, 872	182, 902	659,774	761, 109
	586, 542	251, 882	838,424	998, 239
	744, 413	281, 439	1,025,852	1, 175, 493

The official returns of 1863 are classified as follows by the Honolulu Commercial Advertiser:

			Paying duty.	Bonded.
Imports	from	United States, Pacific side	304, 502	\$36,617
7.	"	" " Atlantic side		40, 827
44	"	Bremen	194, 429	62, 851
. 66	".	Great Britain	63, 400	9, 227
46	"	Vancouver's island	32, 210	2, 277
. "	66	Sea	6, 291	179, 454
46	"	Islands of Pacific	6, 457	5,468
"	66	Sitka, (Russian America)	••••	4,586
		-	730, 061	341, 308
		=		

Of articles exported, 3,512 pounds of cotton were sent to the United States, and the exports of sugar increased from 3,000,000 pounds in 1862 to 5,292,000 pounds in 1863.

#### THE GOLD PRODUCT OF THE PACIFIC COAST.

The extension of English and American settlement since 1850, expressed by the foregoing statistics of Australia, California, and British Columbia, is the result of gold discovery. The London Economist estimates the production of gold from the islands and coast of the Pacific during the fifteen years 1849-'63 at £350,000,000 sterling, or equal to 58 per cent. upon the total computed stock of £600,000,000 sterling of gold existing in various forms in Europe and America in 1848, and conjectures that the following numerical distribution of these £350,000,000 has taken place:

Employed	and absorbed in	Great Britain	<b>£</b> 60, 000, 000	
*"	44	France		
"	44	United States	•	
				£220, 000,000
**	"	Australia	30, 000, 000	
16	66	California	20,000,000	
•6	44	Turkey and East	40,000,000	
46	66	Brazil, Egypt, Spain,		
		Portugal, &c	40, 000, 000	•
				130,000,000
				350, 000, 000

The cheapening of the price of quicksilver, and the large discoveries of silver in Nevada and Arizona, have increased the annual supplies of that metal, but only to a small extent compared with gold.

Upon the question, now elaborately discussed, of the effect of this gold production upon its exchangeable value, the London Economist of February 20, 1864, calls attention to the evidence afforded by comparing the average annual rates from 1841 to 1863 of the foreign exchange between England, using a gold standard, and Paris, Hamburg, and Amsterdam, using a silver standard, and according to this statement the fall in the value of gold as compared with silver (the best available test at present) in no case exceeds  $2\frac{1}{2}$  per cent.

The result of this comparison adds, if possible, to the force and significance

of the following language by an eminent English writer:\*

Tooke, History of Prices, vi, 235, published in 1857.

"Set at work and sustained by the production year by year of large quantities of new gold, there is at work a vast and increasing number of causes all conducing to augment the real wealth and resources of the world—all conducing to stimulate and foster trade, enterprise, discovery, and production—and therefore all conducing with greater and greater force to neutralize, by extensions of the surface to be covered, and by multiplying indefinitely the number and magnitude of the dealings to be carried on, the a priori tendency of an increase of metallic money to raise prices by mere force of enlarged volume. Already the boundaries within which capital and enterprise can be applied, with the assurance and knowledge alone compatible with durable success, have been extended over limits which ten or even five years ago would have been regarded as unattainable. There have come into play influences by which it seems to be the special purpose to contribute, by the aid of the gold discoveries and by the aid of the concurrent advance of knowledge, to the removal or mitigation of many chronic evils against which past generations have striven almost in vain."

It has been estimated that the populations of China and India, when the benefit of a strong and stable government is assured, will develop a commerce fully equal to the proportions now witnessed in France. The beginning of such a state of things, attested by the movement thither of the precious metals, is a fruitful topic of discussion, and will be briefly considered.

#### THE DRAIN OF SILVER TO THE EAST.

The absorption of silver in Asia has never been so great as since the gold discoveries of California and Australia. With the increase of bullion Europe ceased to regard with apprehension the oriental demand for silver in exchange for silks, teas, indigo, and other staples of eastern production. When it was known that the Pacific gold stream was yearly increasing in volume, and could readily fill any vacuum which the shipment of silver to India and China might produce, a great expansion of trade to Asia followed. The precious metals came to be regarded as merchandise, and it was deemed wholly unessential whether payment was made for eastern products in the coin or the manufactures of Europe.

The following table of the imports of Indian products into England in a series of years indicates the nature of this increase of trade:\*

Imports f	rom British	India-vali	ie.
A43 - 3	1077	1050	

Articles.	1855.	1856.	1857.	. 1858.
Cotton	£ 2, 241, 979 504, 264 1, 518, 097 1, 968, 501 559, 319 1, 043, 480 25, 661 490, 977 8, 352, 268	£ 3, 530, 410 638, 300 2, 190, 131 2, 545, 372 565, 405 1, 871, 279 82, 903 576, 944	£ 5, 416, 883 610, 913 1, 791, 644 1, 326, 336 188, 697 1, 928, 006 147, 989 673, 493	£ 2, 898, 779 685, 948 1, 997, 511 1, 774, 558 509, 561 1, 059, 291 91, 152 490, 521 9, 597, 321

O See an article in Hunt's Merchants' Magazine, August, 1863, on "Silver: its Production, Coinage, and Value."

Imports f	rom	British	India-value-Continued	
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Articles.	1859.	1860.	1861.	1862.
Cotton Hemp, jute, and other articles Indigo Seeds Silk Sugar Tea Wool	£ 3, 901, 109 837, 167 1, 619, 604 2, 344, 898 296, 263 1, 101, 716 132, 255 462, 100 10, 695, 108	£ 3, 339, 076 671, 176 2, 220, 119 2, 075, 274 60, 895 939, 026 230, 064 699, 861 10, 235, 491	£ 9, 334, 115 729, 172 2, 605, 634 1, 971, 449 136, 505 821, 458 165, 964 614, 999	£ 21, 933, 774 906, 834 1, 784, 554 1, 751, 003 438, 572 368, 493 161, 768 742, 807

The steady rise in value to an aggregate of \$60,000,000 in 1857, producing a drain of silver, was one of the causes of the revulsion in that year. Since then the purchases of Indian produce, mostly cotton, have risen to \$90,000,000 in 1862, while in 1863 England imported cotton from India to the enormous value of \$200,000,000.

The quantity of silver annually exported from England and the Mediterranean to Asia has been as follows, per English official reports:

Year.	England.	Mediterranean.	Total.
1851	\$8,362,500		\$8,362,500
1852	12, 116, 210		12, 116, 210
1853	23,550,000	\$4,240,000	27,790,000
1854	15, 555, 000	7,255,000	22,821,000
1855	32,075,000	7,620,000	39, 695, 000
1856	60,590,000	9,950,000	70,540,000
1857	86, 477, 170	10, 180, 291	96, 657, 461
1858	25, 444, 250	16, 150, 000	31,594,250
1859	33, 298, 120	7,340,280	40, 638, 400
1860	40,620,182	8, 120, 204	48,740, 386
1861	36, 399, 175	7,980,000	44, 379, 175
1862	53, 551, 045	9,150,000	61,701,045
1863, six months	21, 256, 514	11,737,271	32, 993, 781
	450, 306, 162	88,723,046	539, 029, 208

France, although the richest country of the world in the precious metals, has since 1848 parted with \$165,947,253 of silver, and taken in exchange gold. This is the case with England, Russia, and the United States, who no longer hesitate to encourage and extend their trade with the non-importing population of Asia, although at the hazard of a drain of silver coin. The trade of California with China is more reciprocal, owing, it is supposed, to the new demands for American provisions and manufactures, which the Chinese immigrants, attracted by the mines to our Pacific coast, carry back with them to China. But in India, notwithstanding a century of British occupation, the apathy of the natives—their aversion to any exchange except for silver—seems unbroken. To this condition of the market ethre has been added, during the last ten years, an investment of £50,000,000 of English capital in the railroads of Hindostan, which has greatly contributed to the influx of silver.\*

See the Bankers' Magazine, Journal of the Money Market, and Commercial Digest, January, 1864, London, p. 19.

From the time of imperial Rome bullion has flowed from west to east, and Pliny complained that India was the "sink" of the precious metals. Gibbon has also observed that this continuous drain was "a complaint worthy of the gravity of the senate;" and Humboldt, estimating the produce of the South American mines in the beginning of this century at \$43,000,000, states that \$25,000,000 were sent to Asia. The tendency to hoard the precious metals partakes of the proverbial immobility of the Asiatic character. Silver is less used in India for purposes of luxury and ornament than in Europe; and it is probable that silver, and perhaps gold, will continue to be the leading article of import until the whole Asiatic world, with its population of six hundred millions of souls, shall be in possession of the same money supply relatively which is found in European or American states. This proportion between population and its industry on the one hand, and the medium of commerce recognized by the world, once established, then, and perhaps not before, will the oriental torpidity be succeeded by new and more advanced modes of traffic. The population of Great Britain is computed at 30,000,000, with an amount of gold and silver in circulation assumed to be £80,000,000; and this amount is found essential. notwithstanding the great extension of paper substitutes for coin. The circulating medium of India in 1857 was about £80,000,000, but the population of India is 180,000,000, or sixfold that of Great Britain. India can, therefore, absorb £400,000,000 in addition to the amount she is now supposed to hold before she will exceed the monetary level of Great Britain.

France affords a more impressive illustration of the inevitable absorption of the precious metals by Asia before the monetary equilibrium will be adjusted between the Orient and the Occident. The population of France is, in round numbers, 36,000,000; its specie supply 6,600,000,000 francs, or about £264,000,000. The population of India will therefore require £1,320,000,000 to reach a circu-

lation of coin proportionate to that of France.

But this is not all. It is estimated that there are 600,000,000 Asiatics, fully equal as to industrial capacity to the people of India; many of them—the Japanese and Chinese especially—superior to the Hindostanese. Before the orientals reach the monetary level of England, they must be in possession of £1,600,000,000, while to attain an equality with France no less than an aggregate of £4,400,000,000 must be permanently absorbed by the 600,000,000 Asiatics, who are soon to be brought into close commercial relation with christendom.

The capital and industry of Europe and America were never so active as now. How immeasurable, under the impulse of machinery, is the energy and the amount of production. Fully proportionate is the exigency of distribution and the development of commerce; and as money is the grand instrument both of production and distribution, it must be permitted to diffuse itself proportionately. Until every land is saturated to the full standard of Europe and the United States, there will be no excess of supply from the mines of all the continents. The golden age is here, but we stand only on its threshold.

## OVERLAND TRADE AND COMMUNICATIONS

BETWEEN THE

## PACIFIC COAST AND THE MISSISSIPPI STATES.

Having considered the external commerce of the United States, mostly concentrated on the Atlantic seaboard, and the volume of internal trade between the Mississippi States and the cities and communities east of the Alleghanies, the grand result of nearly three centuries of American civilization, and having also anticipated, from less than twenty years of similar colonization on the Pacific coast, a still more remarkable phenomenon of social and material progress, it remains to consider the situation and prospects of those interior American States which are destined to connect the two great oceans by a railway across the American continent, itself the precursor of other communications of the kind.

The California division of the Union Pacific railroad consists of three sections, under the control of three companies: First, the San Francisco and San José Railroad Company, which has a section of fifty miles between these two places; secondly, the Western Pacific Railroad Company, which has a section of one hundred and fifteen miles from San José to Sacramento; thirdly, the Central Pacific Railroad Company, which has the section from Sacramento to the eastern boundary, in Truckee valley, a distance of one hundred miles. The first section, from San Francisco to San José, is completed and in operation. The further distance to Sacramento is rapidly advancing to completion. With the aid of the California legislature there is a probability that the railway will be pushed to the eastern boundary of the State sooner than the lines west of the Missouri river will be constructed for an equal mileage.

When recently the people of Nevada Territory were represented in a convention to frame a State constitution, there was no dissent from the proposition that the credit of the State to the amount of \$3,000,000 might be applied to aid the construction of a Patific railway, all other loans of credit for internal improvements being prohibited. This provision will doubtless be inserted in the constitution soon to be presented. Utah, Colorado, and Kansas will also constitution soon to be presented.

operate with efficiency.

But the surest guarantee will be the resources, present and prospective, of the organizations named, which will now be considered in geographical sequence.

#### NEVADA.

The population of Nevada Territory by the census of 1860 was 6,857. At the close of 1863 it had reached 60,000, of which nearly 20,000 was concentrated at Virginia City, the centre of the most productive silver district. Within four years \$5,000,000 have been expended in erecting quartz mills and reduction works; another \$5,000,000 have been laid out in opening the mines, and three times as much in various kinds of improvement. In wagon roads alone, leading into and through the Territory, \$500,000 have been spent, an investment that has paid from forty to eighty per cent. per annum. The tolls collected on these roads during the year 1863 reached at least the sum of \$200,000. The money paid on freights coming into the Territory from the Pacific coast amounted to fully \$3,000,000. About 3,000 teams of various kinds are employed in this business, besides numerous pack trains.

The argentiferous lodes of Nevada, first known as the Washoe silver mines, are not confined to the neighborhood of the first discoveries, although none have elsewhere been met with carrying so large a body of rich ores as the original Comstock, at Virginia City. Some claiming to be equally rich, but comparatively small, have been found at other points. The localities of the other principal mines of Nevada, naming them in the order of their discovery, are the Esmeralda mines, a little over one hundred miles south-southeast of Virginia City; the Humboldt, one hundred and sixty miles northeast; the Silver Mountain, sixty miles south; the Peavine District, thirty miles north; and the Reese River Country, one hundred and seventy miles east-northeast, embracing, like the other sections named, many districts, and flanked by two of more than ordinary promise—the Cortez, seventy miles north, and the San Antonio, one hundred miles south of Austin, now the principal town in the Reese River region. Besides these, there are many isolated districts in various parts of the country, all advancing claims to great mineral wealth.

Extensive districts of California, along the course of the Sierra Nevada, are argentiferous. On both the California and Arizona sides of the Colorado river silver lodes of manifest value are met with. In Utah Territory silver-bearing ledges, not unlike those found in the vicinity of Reese river, are numerous, and similar discoveries in the Boise country and other portions of Idaho have been made; but Nevada as yet sustains her pre-eminence as the silver-bearing region

of the United States.

There are now more than a hundred quartz mills in operation in the Territory of Nevada. These carry from five to forty stamps each, and have been erected at a cost ranging from \$10,000 to \$100,000, three or four at least having exceeded the latter sum. The Gould and Curry mill, with its surrounding improvements, has already involved an expenditure of \$1,200,000. About three-fourths of these mills are driven by steam, and the balance by water. Of the entire number in the Territory, seven-eighths are in the vicinity of Virginia City, the most remote being not over fifteen miles distant.

It is calculated that every stamper will crush a ton of rock in 24 hours. Supposing 100 mills to be in constant operation, carrying an average of 10 stamps each, 1,000 tons of ore are crushed daily. This ore will yield at the rate of \$50 per ton, giving a daily product of \$50,000 for the Territory, or a total, allowing 300 working days for the year, of \$15,000,000 per annum. With proper allowance for the increased production of 1864, the estimate of

\$20,000,000 for the current year will not seem an exaggeration.

The colony of Victoria, in Australia, had a population in 1861 of 540,322, about equal to that of California and Nevada. The total number of persons residing within the mining districts of Victoria is given as 233,501, of which 90,364 are returned as directly employed "in the extraction by washing, crushing or other mode, of gold." Upon this basis the colony of Victoria has undertaken and constructed 351 miles of railway at a cost of £35,000 per mile; while society in the gold-fields, under the necessity of co-operation imposed by quartz mining, has been transformed from the violence of the first epoch of gold discovery to a remarkable condition of order and sobriety. Heavy and expensive machinery employed on works which extend over a period of several years have obliged the miner to adopt a settled mode of life. Attractive homesteads are everywhere seen, and flourishing cities are founded almost in a day. The same results are soon to be observed in Nevada—perhaps are already visible. Virginia City (in the language of the Edinburgh Review, describing the populous towns of Victoria) "contains as many as 20,000 or 30,000 inhabitants, with streets well metalled and paved, lighted with gas, and supplied with water, with churches, three daily newspapers, and other public institutions." The construction of 300 miles of railway will soon be added to the analogy of comparative progress.

#### UTAH.

The settlements of Great Salt Lake City, and elsewhere in Utah Territory, have directed their industry exclusively to agriculture and domestic manufactures. Their ecclesiastical rulers, by giving such a direction to the labor of the people, have shown great sagacity, for not only is society organized on surer foundations than in mining districts, but the demand for all the products of Utah has been so constant and remunerative as to furnish an advantageous home market. Simultaneously with the first settlement at Salt Lake the overland emigration to California commenced, and has increased from year to year until in 1863 it meets a return column of adventurers who are pushing eastward and northward to the gold-fields of Colorado, Idaho, and Montana. The consumption by the crowds in transit, both east and west, sustains the prices of provisions and manufactures at rates which encourage population and accumulate wealth.

By the census of 1860 the population of Utah was 40,273, an increase of 253.89 per cent. since 1850. The total valuation of property was \$986,083 in 1850, and \$5,596,118 in 1860, or an increase of 467.50 per cent. If these proportions continue during the present decade, the population of Utah will be

142,525, and the valuation of property \$31,757,966 in 1870.

Most of Utah is barren; perhaps one-fiftieth of the surface, with the aid of irrigation, is available for agriculture; but over other and more extensive districts grazing and wool-growing will reward industry. The native grasses, especially the bunch grass, are heavily seeded, fattening cattle like grain, and giving great consistence and richness to the milk of cows. This concentration of nutriment is a result of the arid climate, and to the same cause may be attributed the health of sheep, and the fine quality of their fleeces.\*

Iron and copper mines, which have been discovered in the Wahsatch mountains of Utah, have received more attention from the Mormons than the indications of gold and silver, but the time is at hand when the precious metals will

be mined as successfully as in Nevada.

The present population of Utah is variously stated—by Peter A. Dey, esq., engineer of the Union Pacific Railroad Company, at 75,000; by Fitzhugh Ludlow, esq., in the Atlantic Monthly Magazine, at 80,000; and by Hon. J. F. Kinney, delegate from Utah to Congress, at 100,000. They are producing, besides fruits and creals, wool, cotton, silk, paper, leather, iron, lead, copper and salt, having introduced machinery for manufactures.

<sup>•</sup> The following paragraph from the San Francisco Bulletin relates to the subject:

THE PASTURES OF THE GREAT BASIN.—These are generally found abundant on the elevations and rounded hills from 500 to 5,000 feet above the foot plains and level deserts coming west from the Salt Lake ranges. Hay is made from wild rye and barley, with many other grasses unknown heretofore to our hay-makers, and mostly undescribed in science. In several parts a species of wheat has been met with, and also several varieties of clover have long been used by passing emigrants, since 1846. Brush and shrub pines, and caks not over one or two yards high, and covered with acorns and nuts, are common in many districts, and make excellent food for stock animals, being also necessary articles of the Papute cuisine; the dwarf oak acorns being particularly nutritious. An American gambusino, who had tramped up and down Arizona and Nevada in 1862-'63, lately stated to a correspondent of the Bulletin that the grasses of the eastern slope, or the other pastures with which they are mixed, have the property, when a little advanced in the season, of making the milk of domestic cows much thicker and more like the consistence of warm cream, and very rich in making cheese. It is many times more sustentative than that of the coast, and much more sweet and toothsome, though less in quantity, these being its usual peculiarities at all seasons. A variety of stiff, short grass is found in these places, not over a foot high, which is full of fine seeds and is greedily eaten by cattle and horses, and keeps them in excellent condition.

The late F. W. Lander, in a communication to the Secretary of the Interior. dated February 13, 1858, speaks of the inhabitants of Utah in the following terms: "Having been much exposed in the passes of the central mountains during two protracted explorations, with very small parties of men, and especially the last season, when the Mormons were expecting attacks from the government military forces, I wish, in this connexion, to place on record my own opinion and that of my party in favor of the masses of the Utah population. Often reduced to great straits for provisions and supplies, I was uniformly relieved, and in several instances most kindly and hospitably entertained by that distant class of our fellow-citizens. It cannot be denied that among this peculiar people exists as much thorough push, practical energy and determined movement, as are found in the republic. Both in founding the colonies of Salt Lake and throwing open that arid, desolate section to settlement, they have overcome some of the most remarkable obstacles of nature. In fact, the initiative steps taken by this singular people first gave great impetus to our own overland emigration, by imparting knowledge of the resources of travel, and by furnishing supplies." Again, in a subsequent communication, Colonel Lander remarks: "The existence of this Mormon population, and the supplies they are enabled to furnish, is a most important matter in making estimates for any public work to be carried on in that section of country. They are very excellent laborers, many of them Cornish miners, who understand all sorts of ledge work, masonry, &c. The majority of the lower classes are trained in the use of implements of excavation, from the amount of picking and digging which is required in the building of the great irrigating ditches, and in the erection of the earth and rock fences by which the farms of the country are separated. They will prove of remarkable service should the proposed line of the Pacific railroad pass anywhere in the vicinity of their settlements. Ex-Governor Young told me that he would engage to find laborers and mechanics to build that portion of a Pacific railroad which should extend across the Territory of Utah.'

#### COLORADO. .

Colorado Territory, with a white population of 34,231 in 1860, and an estimated area of 100,000 square miles, or 66,880,000 acres, has nearly doubled in population during the first three years of the current decade. The population in January, 1864, may be fairly stated at 60,000. The production of gold in 1862 was \$10,000,000, which will probably reach \$15,000,000 during 1864.

A message of honorable John Evans, governor of Colorado, to the Territorial tegislature, delivered February 3, 1864, indicates quite distinctly the future situation of the State in regard to agriculture, grazing, and mining. He estimates that not over one-half of the supplies of provisions for the Territory are yet produced from the soil, and anticipates that this relation between supply and demand will be maintained for years to come. He admits that "the arable lands of Colorado, except for purposes of grazing, are limited exactly by the quantity of water that may be found applicable to purposes of irrigation," while claiming that lands are very productive when irrigated. The governor presents the following comparison between the returns of agriculture in Colorado and Illinois:

## Colorado.—1 man's labor—10 acres corn, 15 acres wheat.

10 acres corn, 40 bushels per acre—400 bushels, at \$3	\$1,200 1,350	
Corn fodder from 10 acres, at \$10 per acre	100 200	
· Total	2, 850	00

# Illinois.—1 man's labor—30 acres corn, 15 acres wheat.

30 acres corn, 60 bushels per acre—1,800 bushels, at 30 cents 15 acres wheat, 15 bushels per acre—225 bushels, at 75 cents	<b>\$360</b> 168	
Straw and fodder, estimated	100	
Total	628	75
Profits in Colorado over those in Illinois on the annual labor of one man	<b>\$2, 221</b>	25

Even more significant than these extraordinary prices of corn and wheat in Colorado is the suggestion by Governor Evans, that one claim of each quartz lode discovered hereafter shall be reserved, by act of Congress, for the purpose of creating a school fund, "as the usual grant of school-lands by the general government will be comparatively valueless for such a purpose in Colorado."

Governor Evans alludes to the progress of quartz mining in the following

terms:

"The improvement in the modes of saving gold from the ores of our mines that have been made during the past year have given a new impulse to mining operations. By these new processes, ores that paid \$25 per ton by the old process are readily made to yield \$100 per ton, while many varieties produce much more largely, and this without greatly increasing the expenses."

The improvements here alluded to are chemical as well as mechanical, and

are thus described by a writer in the New York Commercial Advertiser:

"The gold in the quartz is associated with iron pyrites; it is held very tenaciously, as if combined itself with the sulphur always present. The old plan, after drawing off the sulphur, was to pulverize very fine and then apply quick-silver, which united with all the gold free, forming a part, which, exposed to heat, lost the quicksilver in vapor, leaving the gold pure. By this process much gold was lost because it adhered to the pyrites and passed off in the tailings. A new process of roasting at a certain heat drives off the sulphur without adding to the cohesion of the pyrites or causing the gold to volatilize. This process increases the product threefold. In other cases, where the ores are finely pulverized, the gold becomes so fine as to float in the air, thus escaping the quicksilver. This difficulty has been met by heating the quicksilver into vapor enclosed in a cylinder, into which the dust penetrates. The vapor thus fixes the floating particles of gold, and the yield has been raised in the proportion of two to five."

On the western slope of the Snowy mountains, in Colorado, extensive silver mines have been discovered. Iron, lead, quicksilver, and coal have also been found in the Territory, and have already attracted capital. With the ratio of increase since 1860, the population of Colorado will be 200,000 in 1870.

The discoveries and development of the Gregory district is the sole basis, hitherto, for the settlement of Colorado. This district extends from Gold Hill to Empire City, about thirty miles along the base of the Snowy range, and is, on the average, about ten miles in width—an area of three hundred square miles of gold-producing mountains, in which a hundred quartz mills are now in operation.

Governor Evans, in his message of July 17, 1862, thus describes the mines

and the manner of mining in the Gregory district:

"The veins of quartz are found within an average distance of one hundred feet of each other. They are by the mining laws divided into claims of one hundred feet in extent, making surface enough on quartz lodes in this region alone for over eight hundred thousand claims. These veins are from six inches

to nine feet in thickness, and vary even more in their quality—from those that will not pay at all, to those that produce the richest ore that has been found in any part of the world."

He estimates that ore yielding \$12 per ton pays all expenses, and that the

average result of quartz mining in Colorado is \$36 per ton.

Intelligent observers express the conviction that the range of the gold-bearing quartz is not limited to the Gregory district, but is as extensive as the Snowy range itself; and that recent discoveries in the vicinity of the South Park, and along Clear and Boulder creeks and their branches, are but the precursors of developments in the mountain chain that separates the three parks that will, in a very few years, yield a greater amount of treasure than is now furnished by California, building up important points north as well as south of the present centre.

Professor James T. Hodge, geologist of the Union Pacific railroad, reports the existence of iron and coal near Fort Laramie and the Cheyenne Pass—localities north of Colorado. The Black Hills and Medicine Bow mountains contain these minerals, while the Laramie plains, in the vicinity, will be available for agricultural settlement. In the vicinity of Denver City, Colorado, Professor Hodge visited coal-beds which present a thickness of five feet ten inches pure coal, with no mixture of slate, and thus describes its appearance

and quality:

"The coal is of a brilliant jet black, and is easily mined in large lumps, which appear to be firm and sound, but are said to crumble after exposure for a few weeks to the air. It contains but little bitumen, burning with little smoke, no unpleasant odor, and a yellow flame. It does not melt or coke, and, however high the draught, produces no clinker. The ashes of most of the beds are usually white and bulky. A welding heat in a forge is obtained with difficulty. Sulphur is observed in it, in small quantity, in the form of exceedingly thin disks of iron pyrites disseminated through the seams. Particles of mineral rosin are much more abundant, scattered through the coal of the size of pin-heads."

Another coal-bed, worked for the supply of the Denver market, is in the hills along South Boulder creek, only two and a half miles from the base of the Rocky mountains. This locality also affords an abundance of iron ores, and has been selected for the establishment of the first blast furnace erected in the Territory, which went into operation in March, 1864. "The principal coalbed is opened a few rods southeast from the furnace, and has been worked one hundred feet down a slope of about ten degrees from the horizontal toward the east. The bed is twelve feet thick, almost uniform in quality, with no intermixture of slate, and presents a beautiful appearance in the brilliant lustre of the coal. A little sulphur (pyrites) may here be detected in the seams." Two other beds are described, one of them affording coal of a firmer quality than the others.

These specimens of coal were submitted to Professor John Torrey, who, after analysis, describes them as belonging to the class of lignites—not technically a bituminous coal, neither cannel nor an anthracite. "Still, in common parlance, it will be regarded as coal. In calorific power the Rocky mountain coal may be placed between dry wood and bituminous coal, and therefore it is a most valuable fuel. It may be used for the smelting of iron and other ores. For locomotives it could be employed to advantage, with some modification of the fireplace. The ash is so small in quantity, and so light, that most of it would be carried off by the blast of the furnace. The coal burns freely in a small stove, making a hot and clear fire, and leaving no clinkers. The specimens, that were examined had a tendency to break up and crumble after being soaked with water and allowed to dry; hence the necessity of protection from moisture."

The iron ore found at the eastern base of the mountains, near Denver City,

is characterized by Professor Torrey as "lemonite, a compact variety derived from carbonate of iron, and commonly known by the name of brown hematite or brown iron ore." "It is found," continues Professor Hodge, "in irregular deposits, scattered over the summits, ends, and slopes of many of the ridges which border South Boulder creek and Rock creek. These deposits extend to a depth of only one to three feet, and, as they evidently do not form a part of the strata in the hills, it is impossible to make any estimate of the quantity of ore they will afford. One can judge, only from seeing numbers of acres thus covered, that supplies may be obtained for one or more blast furnaces for several years; but extended observations would be necessary before positively asserting that large works could be supported from this source. The ore is found in pieces of all sizes up to masses of half a ton weight, and large quantities of it are so fine that it would have to be collected for the furnace by sereening. There is scarcely any intermixture of foreign stony materials in these deposits. The quality of the ore is generally pretty good, though the larger masses are not so fine-grained and pure as the smaller ore. I should judge that an average of three tons would be required to make a ton of iron. The ore is in excellent condition for the blast furnace, its long exposure at the surface having prepared it for smelting almost as thoroughly as if it had been roasted. Its unusual mode of occurrence, unconnected with the strata in the hills, was for some time a source of perplexity; and it seemed necessary to explain it correctly in order to judge better of the probability of the ore being found in large quantities in other places on the range of these formations. On examining the country up to the base of the mountains I discovered what I believe is the true explanation. At the distance of two and a half miles from the mines the marginal ridge, already noticed, rises suddenly with a very steep face and dip of its strata. The surface at its foot is covered with large rounded boulders from the granite rocks of the mountains. Some, also, are of the red sandstones and conglomerates of the outer ridge. They decrease in size and numbers towards the east, indicating the movement in that direction of vast bodies of water or ice. These, together with the evidences of denudation I had observed further north, evidently not referable to the diluvial or drift formation, appeared to me as more strongly marked evidences of glacial action than I had ever before seen. The extension of this over the hills near the furnace must have excavated the soft beds, of which they are in great part composed; and the light clayey materials of the strata containing the iron ores being swept away by currents of water, these, by their weight, were left behind, and are now found spread over the surface of the hills. By long exposure they have been oxidized and converted from the clay iron stone, or 'blue case iron' as it is here called, into the shelly hematite. Such a derivation of the ore, if correct, must itself make the quantity in any locality always uncertain. Found as it is, it is collected and delivered at the furnace at a cost of \$3 per ton, making about \$9 to the ton of iron."

"The furnace, owned by Messrs. Langford, Lee, and Marshall, is a very small stack, of daily capacity of only four or five tons of pig iron. It is twenty feet square at base, twenty-two feet high, and seven feet diameter at the boshes. The hearth is five feet high and eighteen inches diameter. It is intended to work the furnace with cold-blast, and the consumption of charcoal will probably be from two hundred and fifty to three hundred bushels to the ton of iron. The cost of charcoal at the furnace is ten cents per bushel, making the cost of fuel from \$25 to \$30 per ton, while that of ore, as above stated, may be rated at \$9. The cost of the limestone for flux will probably not exceed fifty cents, and the remaining items of labor, repairs, &c., may be estimated at about \$7. The total cost will probably be about \$45 per ton of pig metal. In large establishments the expenses should be less, especially if the raw mineral coal could be substi-

tuted, wholly or in part, for the charcoal. The quantity of fuel, too, would be diminished by the use of the hot-blast."

The prospects of agriculture are thus considered by Professor Hodge: "The agricultural resources of the prairies are somewhat limited by the extreme dryness of the climate. Rain seldom falls, and were it not for the never-failing supplies of water in the numerous streams running from the snowy central range of the Rocky mountains, the country would be an uninhabitable desert. Yet the soil is in great part fertile, warm, and mellow, and abounds in gypsum and salts of soda, which appear upon the surface in the form of an incrustation resembling This is particularly abundant about the edges of dried-up ponds. The alkaline salts affect the waters of many of the wells, rendering them nauseous to the taste and unwholesome, and mixed with the dust of the roads, this is said to be, in the summer season, very injurious to the eyes of travellers. It is remarkable that, notwithstanding the want of rain, no great trouble is experienced over the plains for the want of water at the ranches and stations along the roads. I crossed the Platte river at Fort Kearney in October, over its dry, sandy bed, and yet the wells along the valley contained abundant water, and, in general, they were not twenty feet deep, their bottoms not reaching to the level of the stream. It is difficult to explain from whence these supplies are derived. The dryness of the soil renders irrigation necessary for its successful cultivation, and this is already practiced to a considerable extent in Colorado, after the system of the Mexicans, which consists in the excavation of acequias or ditches, often several miles in length, by which the water of the streams, taken out at an upper level, is carried at this elevation past the farming lands, over which it is let out, as occasion requires, by tapping the acequias at any desired points. The cultivation is thus limited to lands lying below the level of the acequias, and such lands are met with of considerable extent along most of the streams, spreading out to great width, even before these have fairly emerged from the mountains. Very productive and extensive farms thus situated are seen running ap among the basaltic hills, or Clear creek, and similar improvements extend all along this stream to its mouth, below Denver. The streams north of it, so far as and including the Cache á Poudre, afford the same advantage for cultivation of the soil, and along most of them the lands are occupied in continuous lines of farms. In the newness of the country, which has been occupied only two or three years, the crops are limited to a few of the most necessary articles. Flour being supplied to the Territory from the States and New Mexico, the cultivation of wheat is not so important as of the more bulky articles, which will not pay for transportation from such distances. Some wheat, however, is raised, and the crop is a successful one. But attention is chiefly directed to procuring the large supplies of hay, corn, oats, and vegetables, required by the numerous gold-mining population in the mountains. The hay being made from the wild prairie grass, its supply is limited only by the amount of labor employed in cutting and stacking it; still, owing to an overstock of it the previous year, the quantity put up in 1863 has proved too small for the demands of the country, increased as they are by the extraordinary accumulations of snow, which, covering the plains, cut off the herds of cattle and horses, with which the country is abundantly stocked, from their accustomed support by grazing during the winter. This, together with the obstructed condition of the roads, caused the price of hay in December last to rise to \$105 per ton at the gold mines. Corn, which is a good crop, and may be raised to any extent along the streams, was worth at the same time nine or ten cents per pound. Potatoes are produced in abundance, as also onions, cabbages, and many other vegetables; but in this unpropitious season the prices of all these range high. Onions are raised with scarcely any of the labor attending their cultivation in the States, yet they were from ten to twelve cents a pound. They grow so luxuriantly that a single one often weighs more than a

pound. Such prices cannot be sustained in a favorable season, and particularly when the country is supplied with a more numerous agricultural population.

"It is an important question whether the cultivation of these prairies is always to be limited to those portions capable of being irrigated only by the system now in use. The mountains, it appears, are abundantly provided with water, derived chiefly from the melting of the snows in the great central range. A large part of this, without doubt, penetrates under the stratified rocks, which on both sides dip away from the mountains. These waters probably flow in underground channels far from the mountains, and if tapped by artesian wells sunk down to them, they might reasonably be expected to rise to the surface in never-failing springs. The stratification of the country is certainly remarkably encouraging to such an enterprise; and another inducement to its prosecution would be the discovery of the mineral beds, whatever they may be, beneath the surface. would be a certain and most economical method of determining the existence or non-existence of beds of coal in localities where it might be especially desirable to obtain this fuel. Artesian wells must at some time be exceedingly useful at Laramie plains, which are not so well watered as the country east of the mountains. These plains, hitherto entirely uncultivated, afford, in places, good pasturage, and a considerable amount of prairie grass hay, for the use of the overland stage line and of emigrants."

The Laramie plains and the mountain valleys of the Black hills and the Medicine Bow chain are mentioned by Professor Hodge as repositories of iron and coal, and having the constituents of agriculture with the aid of irrigation. These statements were anticipated by Lieutenant (now General) G. K. Warren in his report, as topographical engineer, upon Nebraska Territory, published in 1858-59, (Executive Documents, volume 2, part 2, p. 643,) from which an ex-

tract is given:

"In the mountain formations which border the great plains on the west are to be found beautiful flowing streams and small, rich valleys, covered over with fine grass for hay, and susceptible of cultivation by means of irrigation. Fine timber for fuel and lumber, limestone and good stone for building purposes, are here abundant. Gold has been found in places in valuable quantities, and, without doubt, the more common and useful minerals will be discovered when more minute examinations are made. I think it exceedingly desirable that something should be done to encourage settlements in the neighborhood of Fort The wealth of that country is not properly valued, and the Indian title not being extinguished, there is no opportunity to settle it. Those who live there now support themselves by trade with the Indians, which being already overdone, it is to their interest to keep others away. If the Indian title were extinguished and the protection of a territorial government extended there so as to be effectual, there would soon spring up a settlement that would rival that of Great Salt lake. The Laramie river is a beautiful stream, with a fine, fertile valley, and there are such everywhere along the base of the mountains. Pine timber of the finest quality in abundance grows there, easy of access, from which the finest lumber can be made. Building-stone of good quality abound. The establishment of the military post and the constant passing of emigrants have driven away the game, so that the Indians do not set a high value on the land, and it could be easily procured from them.

"The people now on the extreme frontiers of Nebraska and Kansas are near the western limit of the fertile portions of the prairie lands, and a desert space separates them from the fertile and desirable region in the western mountains. They are, as it were, on the shore of a sea, up to which population and agriculture may advance, and no further. But this gives them much of the value of places along the Atlantic frontier in view of the future settlements to be formed in the mountains, between which and the present frontier a most valuable trade would exist. The western frontier has always been looking to

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the east for a market, but as soon as the wave of emigration has passed over the desert portion of the plains to which the discoverers of gold have already given an impetus that will propel it to the fertile valleys of the Rocky mountains, then will the present frontier of Kansas and Nebraska become the starting point for all the products of the Mississippi valley which the population of the mountains will require. We see the effects of it in the benefits which the western frontier of Missouri has received from the Santa Fe trade, and still more plainly in the impetus given to Leavenworth by the operations of the army of Utah in the interior region. This flow of products has, in the last instance, been only in one direction, but when those mountains become settled, as they eventually must, then there will be a reciprocal trade materially beneficial to both.

"These settlements in the mountains cannot be agricultural to the same extent as those in the Mississippi valley, but must depend greatly upon the raising of stock. The remarkable freedom here from sickness is one of the attractive features of the region, and will, in this respect, go far to reconcile the settler from the Mississippi valley for his loss in the smaller amount of products that can be taken from the soil."

The late General F. W. Lander, while employed in the exploration of the Rocky mountains, (1858,) thus indicated the prospects of grazing in the northern valleys of the mountains, (Executive Documents, 1st session 35th Congress, volume 9, No. 70:) "From the arable grounds of the Salt Lake valley, through the numerous valleys and timbered regions of the Wahsatch mountains toward the head of Wind river, to the Beaver Head and to the St. Mary's valley of the north, occur available and peculiarly favorable locations for settlements. There are the numerous herding grounds of the Indians and mountaineers, and here are recruited and fattened, in the open air and during winter, the worndown cattle, mules, and horses bought up by traders from the later overland emigration. The half-breed horses raised by the mountaineers from a cross between the larger animals of the settlements and the Indian pony, reared in the open air and without forage, are some of the finest animals I have ever seen. Durham short-horned cattle, a delicate breed, and not usually thought adapted to exposure, are raised here and wintered without shelter upon the natural grass of the mountains. Hay is never cut by the mountaineers, yet this celebrated stock, fattened upon the bunch-grass, grows larger than any I have seen in the States. John Grant, a well-known trader, who has raised a large stock of Durham milch cows and steers and American horses, winters yearly in the great valleys of the mountains with no shelter but the common Indian lodge of dressed elk or buffalo skin."

#### KANSAS AND NEBRASKA.

The census of 1860 returned the population of the interior districts, which are connected with the overland trade west of the Missouri river, as follows:

New Mexico	•••••		• • • • • • • • • • • • • • • • • •	83,009
			• • • • • • • • • • • • • • • •	
			• • • • • • • • • • • • • • • • • • • •	
			•	
		•		157,559
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In 1860 a special correspondent of the New York Herald furnished the following statement:

Table showing the amount of freight forwarded across the plains from the various ports on the Missouri river during the year 1860, with the required outfit.

• Where from.	Pounds.	Men.	Horses.	Mules.	Oxen.	Wagons.
Kansas City	16, 439, 134 5, 656, 082 6, 097, 943 1, 672, 000 5, 496, 000 713, 000	7, 084 1, 216 1, 591 490 896 324	464 377	6, 149 206 472 520 113 114	27, 920 10, 925 13, 640 3, 980, 11, 118 340	3, 033 1, 003 1, 280 418 916 272
Grand total	36, 074, 159	11,601	841	7,574	67, 950	6, 922

In 1863 a population of 60,000 in Nevada employs for the transportation of machinery, merchandise, provisions, &c., from the Pacific coast, a number of men, animals, and wagons fully half as great as the foregoing exhibit of overland transportation west of Kansas and Nebraska. That this table is inadequate to express the traffic of 1864 may also be inferred from the consideration of the present population of the mountain Territories, viz:

New Mexico, (no increase)	83,009
Colorado	60,000
Utah	80,000
Montana	12,000

235,009

It is not an excessive estimate that the present transportation is 50,000,000 pounds, employing 10,000 trains, and at a cost of \$5,000,000 annually. In consequence of the war and other causes, a considerable diversion of the traffic across the plains has taken place in favor of the northern points of departure from the Missouri river; Kansas city by no means leading in the degree indicated in 1860. Whether the traffic will resume its former proportions, depends altogether upon the railway construction of the next twelve months.

Kansas and Nebraska, for an average distance of one hundred and fifty miles west of the Missouri river, are as well adapted to agriculture as the States of Missouri and Iowa, but beyond that limit agriculture is dependent upon irrigation. Hence, as shown by Lieutenant Warren, a steady and remunerative market for breadstuffs and other agricultural products is at the door of the farmer in Kansas and Nebraska, which will divert all his surplus from the Atlantic coast. The foregoing review of the Territories east of the Sierra Nevada of California suggests a permanent deficiency of agricultural production, while their mineral resources will concentrate a large population. Grazing and wool-growing are future interests, which, with domestic manufactures, will diversify industry and occupy labor at no distant stage of progress; but for the next decade of years, manufactures, and even meats, will be largely imported across the Sierra Nevada from the west, and across the plains from the Missouri river.

The spring of 1864 witnesses an exodus of population from the western borders of Missouri and Iowa to the mining districts of Colorado and Montana, which far exceeds that of 1860. Peter A. Dey, esq., engineer of the Union Pacific railroad, writing from Omaha, under date of May 17, 1864, says: "Four thousand wagons and six thousand tons of freight have crossed the Missouri.

river at Omaha since April first. There is now a daily movement of two hundred teams, three hundred tons freight, and one thousand persons. The teams are equally divided into those drawn by four horses, and those drawn by five yoke of cattle. No emigration has ever been known to bear any comparison to this. The line of teams waiting ferriage reaches nearly to Council Bluffs, or three miles in length. This rush will undoubtedly continue to the middle of June. The ferry-boat runs night and day. This does not include government transportation."

The statistics of the spring emigration of 1864, on the basis of this statement, are 75,000 men, 22,500 tons of freight, 30,000 horses and mules, and 75,000 cattle. It is probable that similar aggregates represent the emigration from other points on the Missouri river, and in that case 150,000 will be added to the population of the mountains from the Mississippi States during

1864.

# UNION PACIFIC RAILROAD.

That the overland trade on the average latitude of 40 degrees north has already reached proportions which assure the prosperity of the Central Pacific railway from the way business alone, as soon as constructed, is a probability which can

be made to appear from the general railroad statistics of the country.

Take the proportion of mileage to population. In 1860 the population of the States, not including the Territories, was 31,148,047, and the number of miles of railroads in operation was 30,592. The population on the 1st of January, 1861, is estimated at 31,615,267; while on that date official reports show that there were 31,168 miles of railroad constructed in the United States, at an aggregate cost of \$1,777,993,818, or \$37,794 97 per mile. Thus, the proportion of one mile of railroad to every thousand of population seems to be established as a practical law of railroad progress by the American people. This ratio is exceeded in many of the States. For instances: Ohio, in 1860, had a population of 2,339,511, and 2,900 miles of railroad in operation; Illinois, 1,711,951 of population to 2.867 miles of railroad; Massachusetts, 1,231,066 population to 1,272 miles of railroad; while the most advanced southern States were, Virginia, 1,596,318 of population to 1,771 miles of railroad; Tennessee, 1,109,801 to 1,197; Georgia, 1,057,286 to 1,404.

If the Union Pacific railroad, assured by the extent of overland traffic, and aided by the land grant and credit of the general government, should organize measures for the completion of a central trunk line through California, Nevada, Utah, Colorado, and Kansas, by the year 1870, the census of that year would doubtless return populations exceeding the ratio of one thousand per mile. During the decennial period of 1850—'60, the population of those Territories increased five-fold. Connect by railroad the agricultural districts of the Pacific coast and the Mississippi valley with the varied consumption and commerce of the interior mining regions, and the ensuing six years, or the period occupied in effecting that connexion, would probably witness an advance of population three-

fold the aggregates which appear in 1864, viz:

	1850.	1860.	1864.	18 <b>70.</b>
California	92, 597	365, 439	500,000	1,500,000
Nevada	••••	6,857	60,000	180, 000
Utah	11, 380	40, 273	80,000	240,000
Colorado	•••••	34, 271	60,000	180,000
Kansas	•••••	107, 206	120,000	360,000
•	103, 957	554, 052	820, 000	2, 460, 000
			COLUMN	-

A comparison of the statistics of the English colony of Victoria and the State of California has already been presented, and is instructive. Victoria, in April, 1861, had a total population of 540,322, almost equally divided between the mining districts and the remainder of the colony. Including the Washoe district, now Nevada, California had a population in 1861, nearly equal to Victoria, and which was divided in the same proportion. San Francisco and Melbourne are cities of equal commercial importance. The California revenue for State purposes is \$1,462,690; for national treasury, \$7,128,399; total \$8,591,089, or about \$17 per capita. The provincial revenue of Victoria was, in 1862, \$15,123,465; in 1863, \$13,968,510, or an average per capita of \$29. California has only 75 miles of railroad in operation, while Victoria has 351 miles, constructed at an expense of £35,000 per mile, from which the Victoria government received an income in 1863 of £433,615.\* The first section of the California Central railroad, which was opened in January from San Francisco to San José, a distance of 49 miles, was constructed at a cost of \$40,000 per mile. If we suppose the next 600 miles across the Sierra Nevada, and the State of Nevada, to cost \$80,000 per mile, the expenditure will not exceed the cost of the Victoria railroads, which connect the city of Melbourne with the Ballaret and Bendigo gold fields, and with the wool-growing districts of the river

There is abundant evidence that the mountain valleys are favorable to stockraising, and that animals and their products will largely contribute to the return business of the Pacific railroad, in addition to the movements of Asiatic merchandise, and of the precious metals. As far north as the sources of the Columbia, the Missouri, and the Saskatchewan rivers, cattle and horses require no winter shelter, but are found in the spring in the best health and condition. For many years the emigrant trains will take to the mountains a multitude of domestic animals. The climate and natural grasses are favorable to their increase, and if the cattle of Texas have been profitably transported to the New York market, it is possible that the Mississippi and Atlantic States may yet receive a considerable portion of their consumption of meats from the Rocky Wool and dry hides are a considerable export from New Mexico and Colorado; and the San Francisco Mercantile Gazette of March 2, 1864, reports the departure of 1,500 head of beef cattle to the gold mines of Montana. or the sources of the Missouri, which cost but \$6 per head in California. They can be produced in every Rocky mountain district at as low a figure.

The construction of a continental telegraph from the Missouri river to San Francisco, three years since, was regarded as premature; but its successful operation has justified the enterprise. So will it be with the Union Pacific railroad. California alone is better able to carry its construction to the Missouri river than New York was competent, by the resources and credit of the State in 1824, to undertake the Erie canal. As its sections advance westward and eastward, a population will attend fully able to sustain the investment by dividends; nor is it improbable that the perforation of the Rocky mountains and the Sierra Nevada by tunnels will prove the most successful and gigantic traverse of gold and silver lodes ever yet developed in the annals of quartz mining.

#### A SOUTHERN PACIFIC RAILROAD ROUTE.

A route from the Lower Mississippi States to the Gulf of California and San Diego on the Pacific coast, which should be a trunk for communications with Memphis, Vicksburg and New Orleans, is a measure which only awaits the re-

The returns for the first quarter of 1864, as reported in the London Times, make it certain that the net profits of the Australian railways will henceforth discharge an interest of six per cent. on the entire cost of construction.

storation of the federal authority in all the gulf States, to be favorably consid-

ered by the country.

There are two events which will direct attention to the latitude of 35° as a scene of rapid settlement and overland communication. The first is the agricultural advantages of the Neosho district, or the country due west of Arkansas, which was conceded by treaties to the Cherokee, Choctaw, Creek, Chickasaw and Seminole Indians; and in the second place, the new discoveries of mineral wealth in the central and northern districts of Arizona Territory. Neosho, on the east, will soon equal Kansas; while the San Francisco mountains of Arizona, situated geographically south of Nevada, will doubtless be the scene of similar excitement and development as have attended the settlement of the Washoe silver district. It is proposed to compile the latest intelligence of the agricultural region of the east, and the mineral district of the west, under the average latitude of 35°.

It was observed in a report presented by the territorial committee of the United States Senate, in 1854, that the country occupied by the Cherokee Indians is as rich and beautiful, as well watered and healthy, as the finest portions of Iowa and Wisconsin, and as lovely in its prairie scenery, as the choicest parts of Texas. It consists of 13,000,000 acres, mostly lying within latitudes 36° and 37°. One Indian agent represents the staple productions of the people to be corn, wheat and oats; that the country is well adapted to apples, peaches, plums, and similar fruits; that stone-coal, iron, and salt-springs are abundant and profitable; and that the country is admirably adapted for grazing cattle, of which the Indians have extensive stocks. In consequence of the climate, only a portion of the country, resembling the northern part of Alabama, is suited for the cultivation of cotton; tobacco and hemp flourish as in Kentucky.

The Creeks occupy 13,140,000 acres, except a small tract assigned to the Seminoles, on the deep fork of the Arkansas, in latitude 97°. The Creek country lies immediately west of Fort Gibson, extending from the Canadian river to the 36th parallel of latitude. It is noticed by James Logan, who was an Indian agent in 1847, as "a country of abundant extent, well timbered and watered, of fertile soil, and of comparative healthfulness, offering every facility for the raising of stock." The scene of Washington Irving's "Tour of the Prairies"

is comprised in the Creek district.

The Choctaw country, of which the western half has been assigned to the Chickasaws and some smaller bands of Indians, extends from the Red river to the Canadian, and from the western boundary of Arkansas to the 100th meridian of longitude. Between longitude 94 and 97 degrees, or the Choctaw territory, as reduced in 1854, cotton has been grown near Red river, but corn and wheat are the prominent crops. An Indian agent wrote in 1851: "The soil produces the finest of wheat, weighing sixty-five to seventy pounds to the bushel; as a grazing community it is likewise unsurpassed, the extensive prairies, clothed with luxuriant grass, being capable of sustaining innumerable flocks and herds throughout the year." In 1854, Mr. A. J. Smith, Chickasaw agent, described some medicinal or "oil" springs on the Washita river, as very efficacious. Coal, copper and salt are found in ample quantities.

In the "Exploration of the Red River of Louisiana in 1852," by Captain (now Brigadier General) R. B. Marcy, the Chickasaw district, between longitude 97° and 100°, is described as about one hundred and eighty miles in length, and fifty in width, containing 9,000 square miles of valuable and productive lands, or 1,000 square miles more than the State of Massachusetts. Various portions of this country are more specifically described. Captain Marcy speaks of "charming landscapes; of soil remarkable for fertility; vegetation in old Indian cornfields twelve feet high; of beautiful springs and streams; of natural meadows covered with luxuriant grasses; broad and level bottom lands, covered with dense crops of wild rice, and of excellent timber, large and abundant." He

adds: "Indeed, I have never visited any country that, in my opinion, possessed

greater natural local advantages for agriculture than this."

There is no reason for doubt that the valleys of the Red River of the South, the Arkansas and the Canadian, for a distance of four hundred miles west of the State of Arkansas, are fertile, well watered and timbered, and supplied with coal and iron—comparing favorably with Kentucky and Tennessee in these respects. The colonization of this district will no longer be postponed, but will follow the termination of the war, and a reasonable adjustment of the interests of its Indian occupants.

Ten degrees of longitude west of the Neosho district, in the northern portions of the Territory of Arizona, recent discoveries of gold have occurred, which are attracting population and capital from San Francisco and southern California. This gold district is near the line of the 34th parallel of latitude, and west of the 110th degree of longitude, and is approached from the Gulf of California by steamboat navigation on the Colorado. The San Francisco mountains on the route of Captain A. W. Whipple's Pacific railroad survey are its central landmark. The Colorado river is navigable for a distance of 500 miles to latitude 36° 06', or to the mouth of the Rio Virgen, by a class of sternwheel steamers, described as follows by Lieut. J. C. Ives, topographical engineer: "100 feet long, 22 feet beam, built full, and with a perfectly flat bottom, having a large boiler and powerful high-pressure engine, and drawing, when light, but twelve inches." The miners of Northern Arizona will be supplied from the Pacific coast by this navigation.\*

The silver mines of southern Arizona, in the valley of the Gila, have been well known for several years. They are not less rich, and will be as produc-

tive as those of Nevada.

With peace restored, Indian hostility suppressed, and individual title to mineral lands assured, Neosho, (as the country west of Arkansas has been called,) western Texas, New Mexico, and Arizona, may be expected to follow the central cordon of States in the increase of population and wealth; and if so, and whenever so, a great central highway of commercial communication will be opened. When that period of development shall arrive, the Union Pacific railroad, like the Union Pacific telegraph, will have vindicated all the intervention by the national government in its behalf, and a great impulse will be given to the construction of a more southern line.

When, in 1853, the initiative of Pacific railroad exploration was presented to the United States Senate, resulting in a congressional appropriation of \$150,000 for the purpose, attention was directed to three routes—the northern, the central, and the southern. Legislation has followed in behalf of one—the central—not so much from any demonstration of greater feasibility, but because the mineral discoveries of the interior, followed by population, suggested the selection. The same causes are now active on the two other routes. Discoveries, not only of gold and silver, but of coal, iron, lead, and salt, diversify the map of the Rocky mountain region everywhere within our boundaries; and an emigration from the Pacific coast meets the Atlantic column even upon the great plains, which are drained by the Missouri, the Platte, and the Rio Grande.

The necessity of more than one route between the Mississippi States and the Pacific coast will appear from an enumeration of the railroad lines which are indispensable to the commerce between the Atlantic and interior States. These

A San Francisco paper says, under date of March 2, 1864: "The discovery of valuable ledges of gold and silver ore is now reported in such numbers, of such richness, and so well authenticated, that if any doubt has existed in regard to the vast mineral wealth of Arizona, it must soon be dissipated. One of the great drawbacks to the prospects of that region for mining enterprises has been the scarcity of fuel; but late advices announce the discovery of coal near La Paz, on the Colorado.'

are seven well-defined thoroughfares: (1) From Portland, by the Grand Trunkto Detroit, and thence, with a traverse of the State and Lake of Michigan, to Milwaukie and La Crosse; (2) by the New York Central, the Great Western, of Canada, and the Chicago and Northwestern railroad, to Prairie du Chien; (3) by the New York and Erie, the lines of Ohio and Indiana south of the great lakes, and the Illinois Central, to Galena; (4) the Pennsylvania Central, and its western connexions, to Rock Island; (5) the Baltimore and Ohio, by way of Cincinnati, to St. Louis; (6) from Richmond, through the Cumberland valley, to Memphis; and (7) from Charleston and Savannah, traversing the States of Georgia, Alabama, and Mississippi, to Vicksburg and New Orleans. All these highways are thronged and prosperous, and, with the wonderful impulse to colonization and commerce induced by mining investments, a period of twenty-five years will probably witness the completion of four great continental communications within the limits of the north temperate zone, and upon the following lines:

1. Through the southern tier of States, on or near the parallel of 35°, which is central to the region of cotton, the sugar cane, and the vine, and which will be supported by the populations of Louisiana, Arkansas, Neosho, (or the Territory occupied by the Cherokee and Choctaw Indians,) Texas, New Mexico, Arizona, Sonora, and southern California. This may be called the Gulf route, from its relation to the Gulfs of Mexico and California.

2. The central, which is now in course of construction, on the average latitude of 40°. With its present prestige and aid from the federal government, soon to be increased by the intervention of State governments in its behalf, the speedy construction of this road may be anticipated. If in operation at the present moment, the road would be financially successful. All the resources of Kansas, Nebraska, Colorado, Utah, Nevada, and, in a great degree, of Missouri and California, are pledged to such a result.

3. The lake route, hitherto designated in congressional debates as the Northern Pacific route, connecting the western coast of the great lakes, and the navigable channel of the Columbia river, by the most direct and feasible communication with which the Territories and future States of Dakota, Montana, Idaho, and Washington, as well as the States of Minnesota and Oregon, are identified.

4. The international route, or an extension of the Canadian railway system across the Peninsula of Michigan, and through Wisconsin and Minnesota, to the English colony of Selkirk in latitude 50°, and thence, through the valleys of the Saskatchewan and upper Frazer rivers, to the Pacific coast in latitude 54°.

The prediction is hazarded that the year 1890 will witness the consummation of the 8,000 miles of interior railroad above indicated. A more accurate statement would be, that whenever, along either of these routes, a population shall be assembled of two millions of souls, then will follow, by an irresistible social law, the construction and support of two thousand miles of railroad. The probability of that aggregate of population by the year 1870 has been considered on the central line. The situation of the more southern communication has been also referred to, and some space will now be given to the probabilities that, by the year 1890, the great lakes will be connected by railroad with the Columbia river and Puget's sound, while 1880 is likely to witness the completion of the international railroad upon the average latitude of 52° north.

## THE NORTHERN OR LAKE BOUTE.

The latitude of 45° north, extended west of Minnesota, is not only central to the lake coast and the railroads of northern Illinois and Iowa, Wisconsin and Minnesota, but in its traverse of the Great Plains and the Rocky mountains it is most accessible from the mining districts now developed, or soon to be occupied, in the Territories of Dakota, Montana and Idaho. Other conditions being favor-

able, the future emigrant route will follow the parallel of 45° or 46°, and when population warrants, that will be the general direction of the northern or lake railroad route.

Explorations by officers of the general government, and publications of their reports, have made the general features of this route quite familiar. Fully ninetenths of the area between the 100th meridian of longitude and the Cascade range of Oregon will never be available for agriculture, although districts far more extensive will support herds and flocks. The climate, owing to the reduced altitude, is not more severe than in the corresponding districts of Colorado and The Great Plains are characterized geologically by a development of the cretaceous formation, which is observed over large Asiatic areas, and concurring with aridity, constitutes the American desert. Population would have been slowly attracted to those localities, except for the discovery of gold. The "northern mines," as they are termed, upon the sources of the Columbia and Missouri, were discovered not more than two years since, and now have a population of 30,000, of which 12,000 are east of the mountains. In addition to the Salmon river mines of Idaho, and the Missouri and Yellowstone mines of Montana, under the average longitude of 108°, it is now well ascertained that the Black hills of Dakota Territory, situated on the 44th parallel of latitude, and between the 103d and 105th meridians of longitude, are rich in gold and silver, as well as coal, iron, copper, and pine forests. With the pacification of the Sioux nation, and the establishment of emigrant roads, Dakota will be the scene of great mining excitement, as the gold field of the Black hills is within two hundred miles of the steamboat navigation of the Missouri river, at the intersection of its channel with the forty-fifth parallel of latitude. Admitting the general sterility of the Great Plains, and the physical difficulties of the mountains, yet the great productiveness of the northern mines warrants the opinion that the Territories of Idaho, Montana and Dakota will advance in population in a ratio fully equal to that observed in Nevada and Colorado since their first settlement. The discoveries at Washoe and Pike's Peak date from 1859. Five years is the whole period of the settlement and progress of Nevada and Colorado, and within that period each Territory has reached a permanent population of 60,000. Both have been subject to the mutations of a mining population, but each has increased at the rate of twelve thousand souls per annum. So with the Salmon river district, twenty months of productive gold-mining having assembled 20,000 people, while east Idaho, or Montana, at the expiration of twelve months from the first discovery of gold on the Jefferson fork of the Missouri, had a population of 12,000. If such a rate of accretion is accepted, the result in the year 1890 will be indicated as follows:

	18 <b>63</b> .	1870.	1880.	1890.
Idaho	20,000	104,000	224,000	344, 000
Montana	12,000	96,000	216, 000	336, 000
Dakota	10,000	94, 000	214, 000	. 334,000
	<del></del>			
	<b>4</b> 2, 000	294, 000	<b>654, 000</b>	1, 009, 000
			======	

An estimate of the increase of population in Oregon and Washington is annexed. Oregon in 1850 had a population of 13,294, which was increased in 1860 to 52,465, or a ratio of increase of 294.65. Assuming a ratio of increase from 1860 to 1870 of 200 per cent.; for the decade closing with 1880, of 100 per cent., and of 50 per cent. from 1880 to 1890, the population of Oregon during and at the expiration of twenty-seven years will be as follows:

1860		• • • • • • • • • • •		. 52, 465
1870				. 157, 395
1880				
1890			. <b> .</b>	. 472, 185
•			. ;	
The population of of increase during the that of Oregon from 18 1880, and 100 per cen	first decade w 850 to 1860;)	ill be 300 per c then 200 per c	ent., (or about ent. for ten years	the same as
1860 (by census)				11, 168
1870 (assumed)				
			• • • • • • • • • • • • • • • • • • • •	
1890				
The ratio of increase 1860, far exceeds these		s to Michigan a 1840.	and Wisconsin, f	rom 1830 to 1860.
Michigan	. 31,639	211, 560	397.654	749, 113
Wisconsin		30, 945	305, 391	775, 881
An American railro river may be anticipa ascertained as above:				the Columbia
acciunica as above.	ica by the yea	ur 1890, on the	following basis o	
Dakota	••••	• • • • • • • • • • • • •	·.	of population, 334,000
Dakota	•••••••	• • • • • • • • • • • • • • • • • • •	·. · · · · · · · · · · · · · · · · · ·	of population, 334,000 336,000
Dakota	••••••	· · · · · · · · · · · · · · · · · · ·	·.	of population, 334,000 336,000 344,000
Dakota	••••••	• • • • • • • • • • • • • • • • • • • •	·.	of population, 334,000 336,000 344,000 472,185
Dakota	••••••	• • • • • • • • • • • • • • • • • • • •	·.	of population, 334,000 336,000 344,000 472,185
Dakota	••••••	• • • • • • • • • • • • • • • • • • • •	·.	of population, 334,000 336,000 344,000 472,185

#### THE INTERNATIONAL ROUTE.

Public sentiment in Canada and England has long demanded measures for the colonization of Central British America, as that fertile belt of territory is now called, which extends from Canada and Lake Superior to the Rocky mountains. It includes the valleys of the Red River of the North and the Saskatchewan river, which belong to the hydrographical system of Hudson's bay, and are covered by the charter of the Hudson Bay Company.

Selkirk settlement, on the Red River of the North, was founded in 1812, and has a population of 10,000—an industrious, moral, and well-ordered community. Fort Garry, in this settlement, is the North American headquarters of the Hudson Bay Company. The posts of this company, more than fifty in number, occupy very commanding situations over the immense area, bounded by Hudson's bay and Lake Superior on the east, the Rocky mountains on the west, and the Arctic ocean on the north. The fur trade of this immense territory concentrates its annual product on the Red River of the North, at Fort Garry, from which point, by the annual voyages of brigades of batteaux, merchandise and supplies are distributed to the most distant post. Prior to 1858, the imports and exports of the Hudson Bay Company were principally transported by the difficult and dangerous route of Hudson's bay and Nelson's river, or over the numerous obstacles intervening from Lake Superior to Red river, on the British side of the international line. In 1858, however, materials were transported

from the navigable waters of the Mississippi river to construct a steamer on the Red river, and in 1862 two such vessels navigated that stream. The trade previously existing between St. Paul and Selkirk has been greatly increased in consequence. The imports of Central British America for the use of the Hudson Bay Company and the Selkirk settlers amount to \$500,000 annually, while the average annual exports, almost exclusively furs, amount to \$1,000,000.

It is now well known that, northwest of Minnesota, the country reaching from the Selkirk settlement to the Rocky mountains, and from latitude 49° to 53° on the longitude of 94°, and to latitude 53° on the Pacific coast, is as favorable to grain and animal production as any of the northern States; that the mean temperature for spring, summer and autumn observed on the 42d and 43d parallels, in New York, Michigan and Wisconsin, has been accurately traced through Fort Snelling and the valley of the Saskatchewan to latitude 55° on the Pacific coast, and that from the northwest boundary of Minnesota this whole district of British America is threaded in all directions by the navigable water-lines

which converge to Lake Winnipeg.

These facts, however favorable to agricultural settlement, would have failed to revolutionize the policy of the Hudson Bay Company, except for the violent excitement of gold discovery. The year 1858 directed a column of adventurers to the channel and sources of Frazer river: the organization of British Columbia followed, and it was soon ascertained that the richest and most extensive gold fields of northwest British America—the Cariboo mines—are so far within the Rocky mountains, so far up to the utmost sources of Frazer river, as to be practicably more accessible from Selkirk than from the coast of Puget's sound. At length, in 1862, the tributaries of the Saskatchewan and Peace rivers, on the eastern flank of the Rocky mountains, were discovered to be auriferous; while eastward stretched, towards Canada and Lake Superior, not less than 100,000,000 acres of fertile lands destined to cereal cultivation, whenever reached by emigration. English and Canadian exploration also established, in favor of this district, that its average elevation above the sea was far less than in American territory; that the Rocky mountains were diminished in width, while the passes were not difficult; that the supply of rain was more abundant, and the carboniferous and silurian formations were of greater extent than further south; and, owing to the greater influence of the Pacific winds through the mountain gorges and the reduced altitude, that the climate was no material obstacle to civilized occupation.

The Hudson Bay Company, in 1863, was reorganized to meet the exigencies of imperial and provincial policy in Central British America, "in accordance (to quote the circular of the new directory) with the industrial spirit of the age, and the rapid advancement which colonization has made in the countries adja-

cent to the Hudson's Bay territories."

While the present most effective organization of the fur trade will be continued and even extended, the company now proposes to avail itself of all possible agencies for the rapid colonization of the Saskatchewan basin and the gold districts at the sources of the Columbia, Frazer, Saskatchewan and Peace rivers. A telegraph line from St. Paul to Pembina, and thence through Selkirk and the Rocky mountains to the Pacific coast, is first announced as the special enterprise of 1864. Then a connexion of the Selkirk settlement by railroad with St. Paul, and by a direct emigrant road with Fort William, on the British coast of Lake Superior, will receive effective aid, concurrently with the prosecution of American and Canadian enterprises. Steamboat navigation is to be extended upon Lake Winnipeg and the Saskatchewan river. The systems of land survey and gratuitous allotments of land to colonists which prevail in the United States are proposed, the company reserving alternate blocks or sections to support future railroad construction, since, at the earliest practicable moment, a railroad will be undertaken traversing the colonies of Central British America

and British Columbia. It is in the power of the modernized Hudson Bay Company, and it is its well-defined purpose, to connect Lake Superior and the Pacific coast by a cordon of settlements, and to carry forward the construction of two thousand miles of railroad simultaneously with the advent of population, and as the sure means to encourage the settlement of Northwest British America, or the interval which separates the lake coast of Canada from the coast of the North Pacific ocean.

This international railroad (as it may properly be called, until the develope ment of British America warrants a direct communication with Canada) will be the favorite object of English capitalists on this continent, as the Union Pacific railroad will combine in its behalf the energies of the government and citizens of the United States. These two enterprises will therefore precede the construction of railroads on the gulf and lake routes, but only by a decade of years. All four routes will be demanded by the wants of 8,000,000 of people, which the next twenty-five years will witness permanently seated on the average latitudes of 35°, 40°, 45° and 50°, between longitude 95° and the Pacific ocean.

#### STATISTICAL MAP.

To illustrate the communications, present and future, between the Atlantic, Mississippi, Interior and Pacific States, a map is annexed, which has been prepared for publication in this connexion, and which also indicates the boundaries of the Territories at the close of the congressional session of 1863-'4. The statements of population are from the census of 1860, except the estimates for later dates. The map has been extended beyond the northern frontier of the United States, that the arable districts of British America, as shown by their respective northern boundary lines, may be studied with reference to the railway and commercial movements on the continent.

# THE MINERAL WEALTH OF LAKE SUPERIOR

The whole basin of Lake Superior indicates the presence of iron and copper The mountains which divide the waters of Lake Michigan to the southeast, of the Mississippi river and its tributaries to the southwest and west, of the Rainy Lake river to the northwest, and of Hudson's bay to the north and northeast—the outer rim of the Superior basin—are found, wherever explored, to contain iron ore. The mines at Marquette, Michigan, have been successfully worked, in consequence of the construction of a railroad from the harbor of Marquette to the Iron mountain, eighteen miles distant; but iron deposits in the same mineral range are situated at no greater distance south of Bayfield and Superior, in Wisconsin, and thence have been traced around the north shore of the lake, in Minnesota and in Canada.

Nearer the lake coast, and apparently a lower formation, are the copper districts. The only locality on the southern shore which has attracted attention is a district extending from Keweenaw Point to the Montreal river, 100 miles in length by four to twenty miles in width. On the north shore of the lake, in Minnesota, near the western extremity of the lake, and in Canada for a distance of 200 miles northwest from the Sault St. Maric, are well-defined copper regions which are now attracting the attention of capitalists, and will probably prove as productive as the Keweenaw, Portage Lake, Ontonagon, and Carp Lake districts, as the subdivisions of the Michigan copper-bearing territory are termed.

During the year 1863 discoveries were made in the vicinity of Marquette, which suggest that Michigan is destined to become, at an early day, a great silver-yielding State.\* The newly-discovered district is known as the granite range, lying between the schistose or iron range and Lake Superior, and is from ten to twenty miles in breadth and about fifty miles in length. Lodes of argentiferous galena have been found in this region, yielding from ten to thirty pounds of silver to the ton of metal. Assays made on some of the ores have discovered gold in them to the value of \$60 to \$240. If these statements are confirmed, the silver district of Lake Superior will exceed in value either of the ranges now yielding copper and iron.

Under the impulse of the present demand for iron and copper, the Minnesota district, extending from Fond-du-Lac to the Grand Portage at the mouth of Pigeon river, has been thoroughly explored with satisfactory results; while Canada has taken effective measures for the encouragement of mining enterprises on the remainder of the northern shore. Title to mineral lands on Lake Superior can now be acquired from Canada at one dollar per acre, subject to a tax of one dollar per ton of ore. This order will have the effect to transfer English capital to the Nepigon, Pic and Michipicoton districts of Lake Superior, as it is now admitted that the copper mines of Great Britain have lately failed of their former productiveness. A correspondent of the London Mining Journal states that "the very rich mines of Cornwall and Devon are limited in the

present day, and that some thirty or forty of the greatest and richest mines in those countries are exhausted, at least for copper." There were, in March, 1864, more than fifty bills before the Canadian Parliament to incorporate companies for mining gold, silver, lead, antimony, iron, and copper.

Similar and greater activity prevails in all the American districts of Lake Superior. The total amount of capital invested in the fee-simple and development of the copper mines now worked in Michigan, not including the value of the metal produced, is estimated at \$6,000,000, while their stocks are worth over, \$15,000,000. The aggregate amount of copper produced in 1863 was not less than 9,000 tons of stamp work, barrel and mass, or about 7,500 tons of ingot, worth at its present value over \$6,000,000; but as the largest portion was probably sold at an average of 35 cents per pound, the aggregate receipts of sales will not be much over \$5,000,000. The products of the Marquette iron mines for 1863 are reported as 185,000 gross tons of ore, and 13,732 gross tons of pig iron. In 1855 the product of the same mines was only 1,447 tons of iron ore, with no production of pig iron; in 1858, 31,035 tons of iron ore and 1,627 tons of pig iron.

The exports, of all values, for 1863, from Lake Superior, will amount to \$10,000,000, imports \$12,000,000, consisting, in addition to provisions and merchandise for the mining villages, of shipments of machinery and other materials for permanent improvements.

<sup>•</sup> In the same vicinity, the Huron mountains are reported to be gold-bearing, and at the latest date (June 13, 1864) there is a probability that the discoveries and production of gold in this district of the Lake Superior basin will fully equal the facts in regard to silver.

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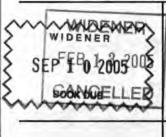
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